

# Pipeline Components & Accessories

SECTION	PAGE
<b>C</b>	<b>1</b>
EFFECTIVE:	10/8/20

Description	Page
Air Blow Valve Assemblies .....	34
Air Injectors & Controllers.....	39-40
Bracket Assemblies .....	49
Butterfly Valves .....	43-44
<b>Control Assemblies</b>	
Dari-Chem .....	13
Electrical Guardian II .....	11
Pump Control, Guardian & Glacier Guard .....	12
Control Panel Assembly .....	6-7
Couplings.....	50
Diverter Valve .....	35-36
Drain Assembly Air Operated .....	33
Drain Valve 2 & 3 Inch Electric .....	36
Drain Valve Assemblies .....	32
Jetter Assembly .....	51
Jetter Drawer Assembly SS & Under Curb Jetter.....	52
Liquid-Level Control Assemblies .....	27
Manifold Assemblies 1.5 Inch .....	51
Master Control Panels .....	2-5
Milk & Wash Plugs.....	26
Milk Filter Assemblies .....	45
<b>Milk Nipple Assemblies</b>	
Plastic .....	46
Stainless-steel .....	48
<b>Milk Pumps</b>	
1/2 & 1 Hp.....	29-30
2 & 3 Hp.....	31
<b>Milk Valve Assemblies</b>	
Plastic, old & new styles .....	47
Stainless-steel .....	46
<b>Moisture Trap Assemblies</b>	
3 Inch.....	38
SS, 3 & 4 Inch.....	38
SS, 10 & 20 Inch.....	37
<b>Pipeline Washers</b>	
Guardian II .....	10
Guardian JW.....	14
Guardian/Guardian Supreme .....	15
Wall Mounted.....	8-9
Water Valves.....	17
Probe Assemblies.....	28
Pulsator Controller Assembly .....	41
Pulse MD .....	53
Pulse MD, Kit, Remote Lamp .....	55
<b>Receiver Assemblies</b>	
30 Liter for RP-25 .....	18-19
60 Liter, Horizontal.....	24-25
60/85 Liter.....	22-23
Glass to SS Conversion .....	21
Model 77 & Receiver Upgrade Kit .....	20
<b>Receiver Jars</b>	
26" Diameter (135, 170, 225 Liter) .....	19
75-Liter Receiver Jar Assembly .....	25
Sanitary Trap Assembly.....	59
Sanitizer Assemblies 230V & 115V .....	16
Stallcocks .....	42
Vertical Tank Assemblies .....	44

## Master Control Panels

NOTE: Cyclone 600 Air Injector 8503938 can be used with these assemblies ONLY IF Air Injector Timer 8506223 (115V) or 8506194 (230V) has been retrofitted. See page C-5.

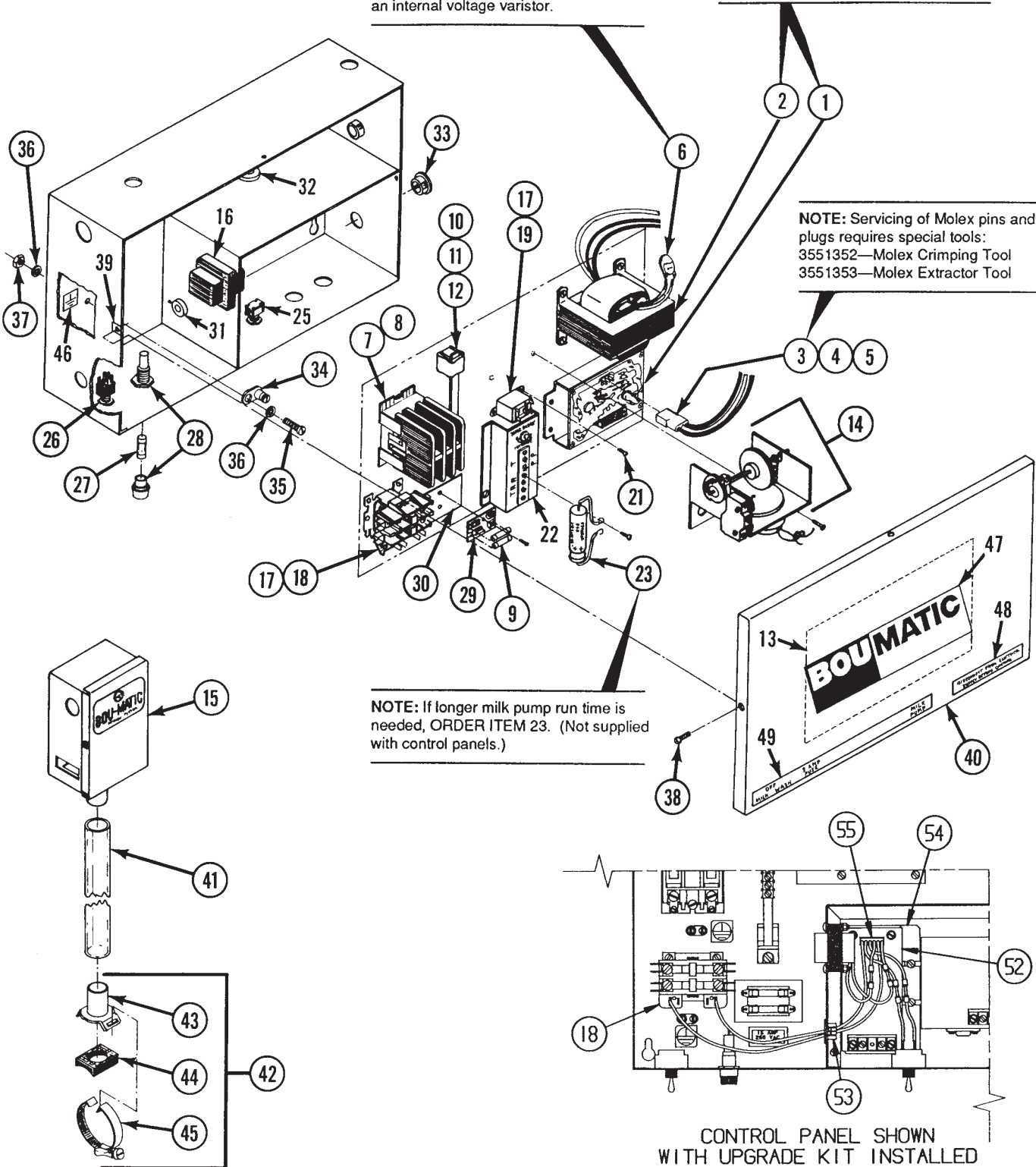
NOTE: Supplied only on early control panels having a transformer that lacked an internal voltage varistor.

NOTE: When replacing module base or transformer, a special Molex plug assembly may be required. SEE MOLEX ADAPTER KIT, page C-48

NOTE: Servicing of Molex pins and plugs requires special tools:  
3551352—Molex Crimping Tool  
3551353—Molex Extractor Tool

NOTE: If longer milk pump run time is needed, ORDER ITEM 23. (Not supplied with control panels.)

CONTROL PANEL SHOWN  
WITH UPGRADE KIT  
(Items 50 or 51)



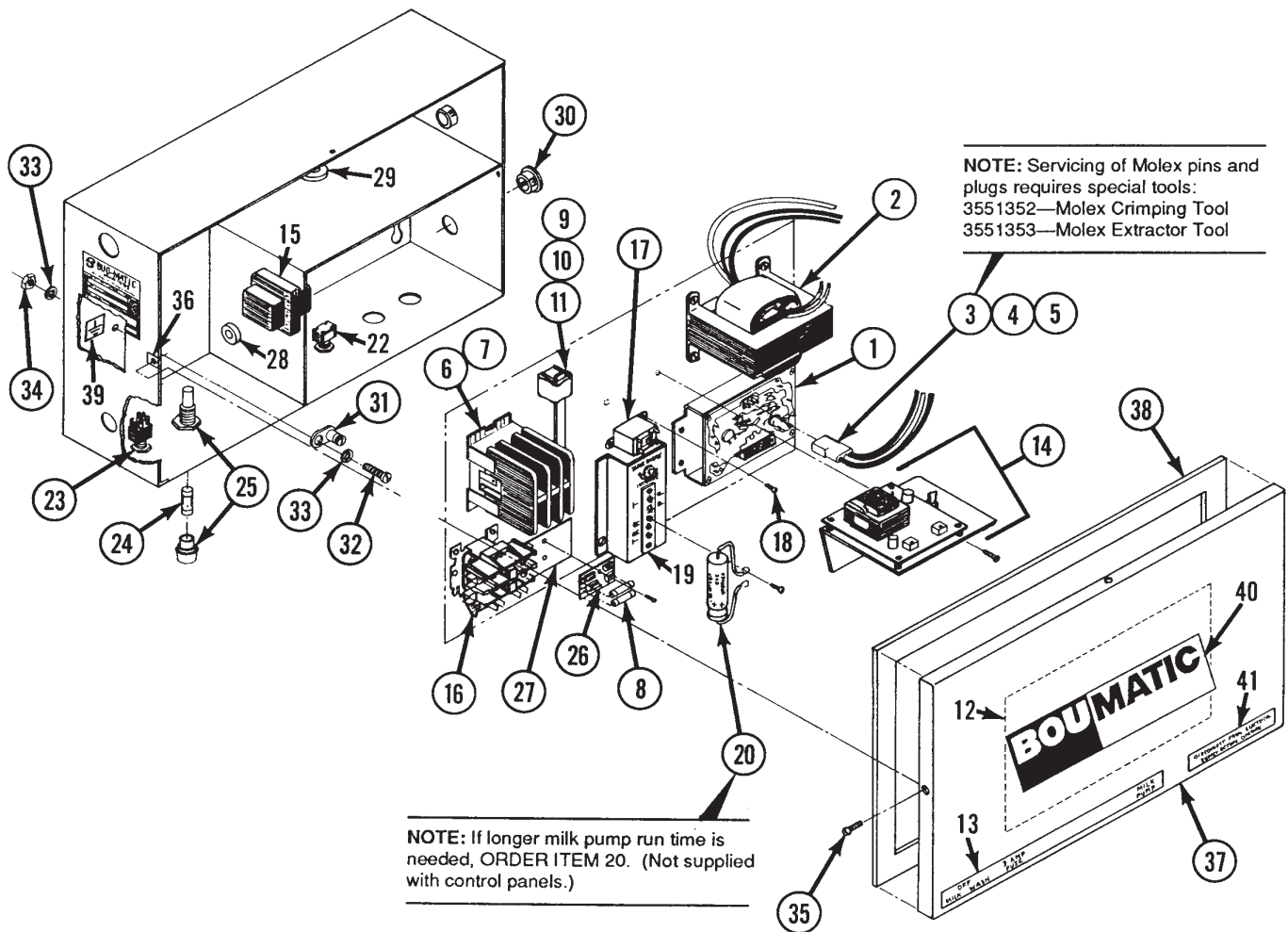
# Master Control Panels

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	<b>8513850</b>	⊗	<b>Control Panel Assy, 115V, 60Hz</b>	<b>850</b>		
	<b>8513880</b>	⊗	<b>Control Panel Assy, 230V, 50Hz</b>	<b>880</b>		
	<b>8518418</b>	⊗	<b>Control Panel Assy, 230V</b>	<b>418</b>		
1	8518588 <sup>6</sup>	⊗	Module Base Assy, 45/52/60 PPM	1	1	1
	8518373		Xfmr, 120V, 48V, 50/60Hz	1	-	-
2	8518362	⊗	Xfmr, 230V, 48V, 50/60Hz (Both include items 3 thru 5)	-	1	1
3	1916903		Connector, Recept, FH, 3-Pin	1	1	1
4	1916701	n/s	Conn, Pin, .093, M, 18-22, .06/.12	1	1	1
5	1916719	n/s	Conn, Pin, .093, F, 18-22, .06/.12	2	2	2
6	1988201	⊗	Xlent, Varistor, 130VAC, 38J	1	-	-
	1988213	⊗	Xlent, Varistor, Gas Discharge	-	1	1
7	8518361		Contactor, DPST, 115V, 30 Amp (Includes item 8)	1	-	-
	4012938		Contactor, DPST, 240V, 40 Amp (Replaces 4014222)	-	1	1
8	8513861 <sup>2</sup>	⊗	Coil, Contactor, 120V	1	-	-
	8513949 <sup>1</sup>	⊗	Coil, Contactor, 115V	1	-	-
	8513950 <sup>1</sup>	⊗	Coil, Contactor, 115V, Gould	1	-	-
9	1931838		Fuse, 15.00A, 250V, Slow, 1.25 x .25	2	1	1
10	8513863	⊗	Bar, Neutral	1	-	-
11	8505052	⊗	Block, Terminal, 8-Position	-	1	1
12	8505053	⊗	Jumper, Terminal-Block	-	4	4
13	8513858	⊗	Label, Wiring Diag	1	-	-
	8513878	⊗	Schematic, MCP-100, 230V, 50Hz	-	ref	ref
14	8506171	⊗	Bracket Assy, Air Injector, 60Hz	1	-	-
	8506183	⊗	Bracket Assy, Air Injector, 50Hz (Parts for both on page C-39)	-	1	1
15	8506102	⊗	Injector, Air, 115V, 60Hz	1	-	-
	8506186	⊗	Injector, Air, 240V, 50/60Hz (Parts for both on page C-39)	-	1	1
16	8513862		Xfmr, 220V, 24V	1	1	1
17	8516134	⊗	Kit, Upgrade, LLC, w/Contactor	1	1	1
18	4015303		Contactor, 20A, 2-Pole, 24 VAC	1	1	1
19	8513912	⊗	Relay Assy, 24 VDC	1	1	1
20	- - - - -		Literature 9P-333 (Installation Instructions)	ref	ref	ref
21	1189249	⊗	TFSCR, PNH, 4-24 x 3/8 ZP AB	2	2	2
22	8513856 <sup>7</sup>	⊗	Delay Assy, Time	1	1	1
23	8513884	⊗	Capacitor Assy, Time-Delay (Includes item 24)	1	1	1
24	- - - - -		Literature 9P-340 (Installation Instructions)	ref	ref	ref
25	8502203	⊗	Switch, Toggle, Momentary	1	1	1
26	8519140		Switch, Toggle, DPDT	1	1	1
27	1931828		Fuse, 3.00A, 250V, Slow, 1.25 x .25	1	1	1
28	8506109		Holder, Fuse	1	1	1
29	8513875		Holder, Fuse, 2-Pole	1	1	1
30	8513877	⊗	Insulator, Fiberboard	1	1	1
31	4079102	⊗	Grommet, 0.38 ID x 0.88 OD	1	1	1
32	4079106		Grommet, 0.65 ID x 1.18 OD	1	1	1
33	4012594		Plug, Int, Plstc, 0.88	3	3	3
34	3551897		Lug, Ground, 14 to 8 AWG	3	3	3
35	1096200		MSCR, PNH, SS, 10-24 x 1/2	3	3	3
36	1235384		Washer, Lock, Intl-T, SS, #10	6	6	6
37	1204379		Nut, Hex, Mscr, SS, 10-24	3	3	3
38	1027265		TFSCR, PNH, SS, 8-18 x 1/2 AB	4	4	4
39	3551200		Nut, Speed, #8	4	4	4
40	8513855	⊗	Cover, Control Panel	1	1	1
41	8507404	⊗	Hose, Milk, Plastic, 1.00 ID	a/r	a/r	a/r
42	8506103	⊗	Nipple Assy, Air Injector (Includes items 43 thru 45)	1	1	1
43	8506123	⊗	Nipple, Air-Inj, 1 In OD	1	1	1
44	8506104	⊗	Gasket, 1 In, Base Seal	1	1	1
45	8510200	⊗	Clamp, SS, Valve Assy, 1.5 x 2	2	2	2
46	8505776		Label, Ground, International	3	3	3
47	8506167		Label, Bou-Matic, 3.0 x 10	1	1	1
48	4016123		Label, Caution, Disconnect-Power	1	1	1
49	8518291	⊗	Label, Control Panel	1	1	1
50	8516133 <sup>4</sup>	⊗	Kit, Upgrade, LLC, w/o Contactor (Includes items 52 thru 56)	a/r	a/r	a/r
51	8516134 <sup>5</sup>	⊗	Kit, Upgrade, LLC, w/ Contactor (Includes items 18 & 52 thru 56)	a/r	a/r	a/r
52	8513985		Pwb Assy, Liq Level Timer	1	1	1
53	8516139		Bushing, .875 OD x .687 ID	1	1	1
54	8516138		Bracket, Upgrade Kit, LLC	1	1	1
55	8516136		Wire Harness, Upgrade Kit, LLC	1	1	1
56	- - - - -		Literature 9E-717	a/r	a/r	a/r

## Note:

- Coil 8513949 used only on contactors with stamped sheet metal base.
- Coil 8513950 used only on Gould contactors.
- Early controls using coil 8513881 require replacement of entire contactor 8513861.
- Items 19, 20, 21, 23 & 24 not supplied with control panels.
- Used to replace items 17, 19, 22 & 23 when 4015303 contactor (item 18) is present.
- Used to replace items 17, 19, 22 & 23 when contactor other than 4015303 is present.
- Replaced by 8509330.
- Replaced by 8512749.

## Master Control Panels



# Master Control Panels

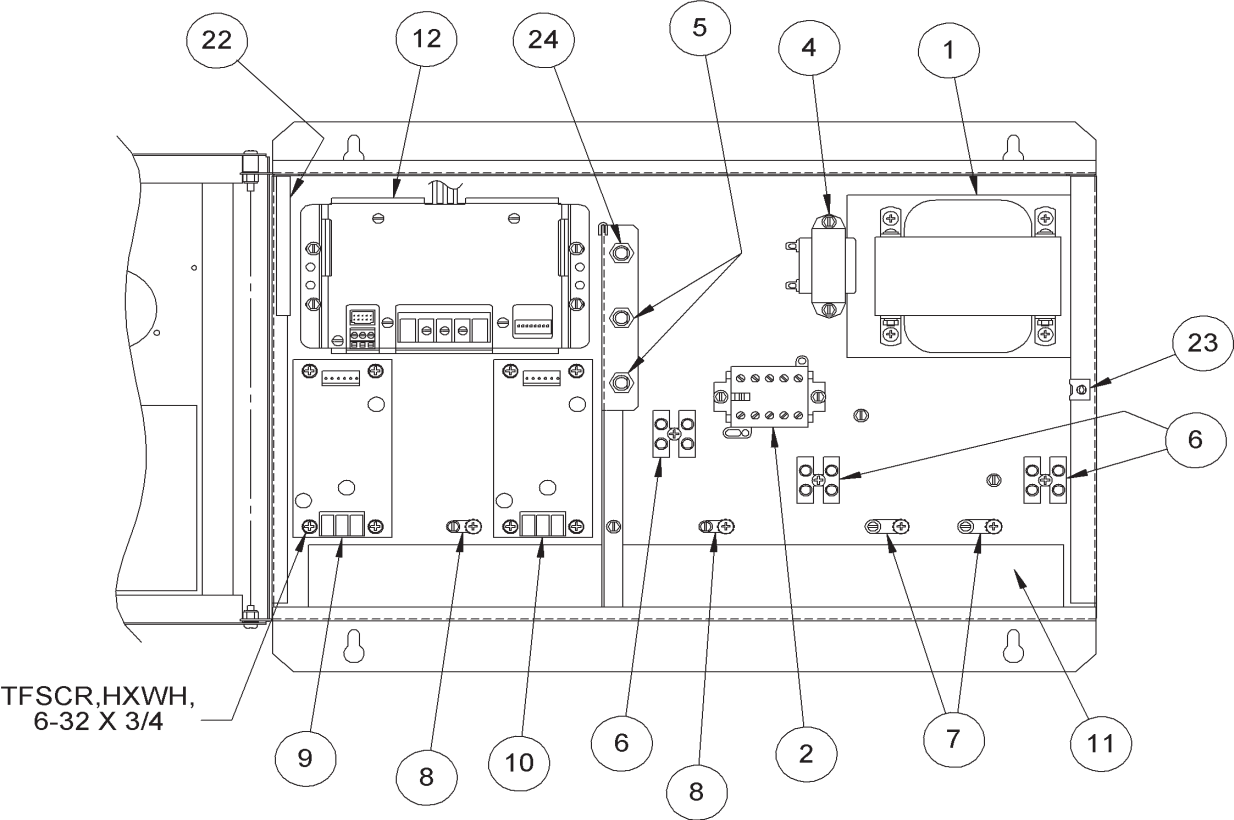
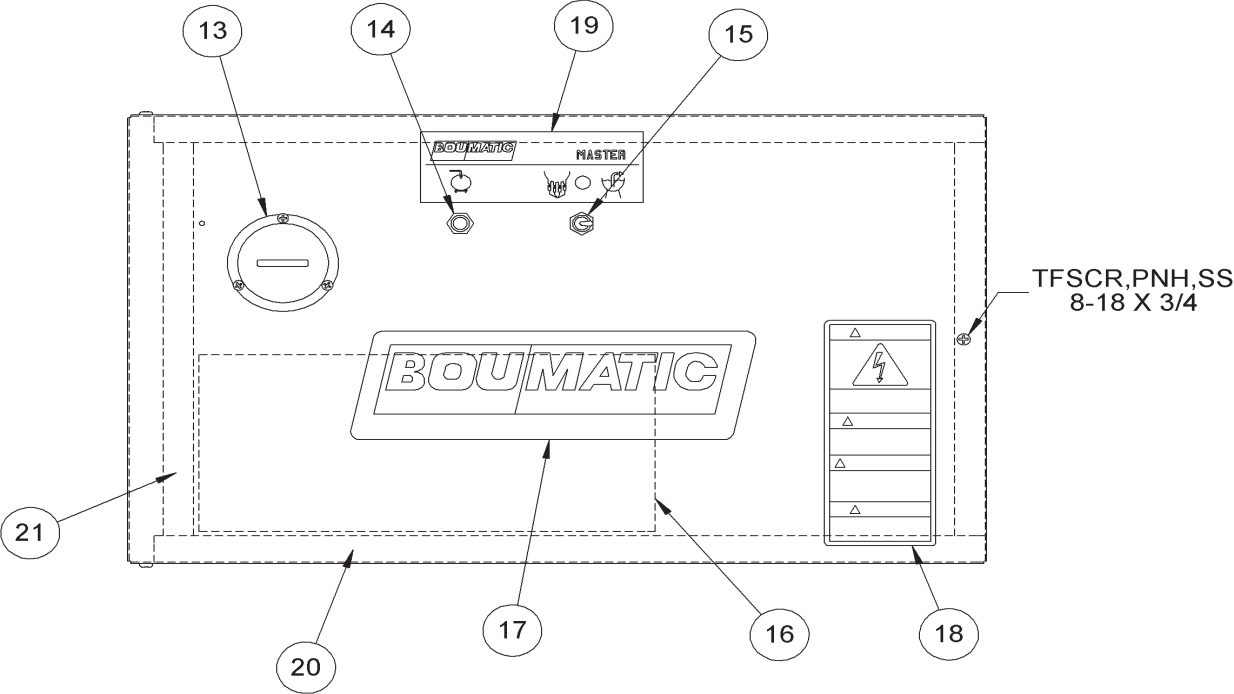
SECTION <b>C</b>	PAGE <b>5</b>
EFFECTIVE:	2/8/17

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	<b>8513913</b>	⊗	<b>Control Panel Assy</b> (Milk-rest ratios 60:40 rear quarters, 50:50 front; 45 PPM)	<b>913</b>		
	<b>8520153</b>	⊗	<b>Control Panel Assy, 230V, 50Hz</b> (Milk-rest ratios 60:40 rear quarters, 50:50 front; 45 PPM)	<b>153</b>		
	<b>8520154</b>	⊗	<b>Control Panel Assy, 230V, 50Hz</b> (Milk-rest ratios 50:50 rear & front; 50-52 PPM)	<b>154</b>		
1	8509330		PWB & BKT Assy, Module, PRISM	1	1	1
2	8518373		Xfmr, 120V, 48V, 50/60Hz	1	-	-
	8518362	⊗	Xfmr, 230V, 48V, 50/60Hz (Both include items 3 thru 5)	-	1	1
3	1916903		Connector, Recept, FH, 3-Pin	1	1	1
4	1916701	n/s	Conn, Pin, .093, M, 18-22, .06/.12	1	1	1
5	1916719	n/s	Conn, Pin, .093, F, 18-22, .06/.12	2	2	2
6	8513861	⊗	Contactor, DPST, 115V, 30 Amp (Includes item 7)	1	-	-
	4012938		Contactor, DPST, 240V, 40 Amp	-	1	1
7	8513881 <sup>2</sup>	⊗	Coil, Contactor, 120V	1	-	-
	8513949 <sup>1</sup>	⊗ n/s	Coil, Contactor, 115V	1	-	-
	8513950 <sup>1</sup>	⊗ n/s	Coil, Contactor, 115V, Gould	1	-	-
8	1931838		Fuse, 15.00A, 250V, Slow, 1.25 x .25	2	1	1
9	8513863	⊗	Bar, Neutral	1	-	-
10	8505052	⊗ n/s	Block, Terminal, 8-Position	-	1	1
11	8505053	⊗ n/s	Jumper, Terminal-Block	-	5	5
12	8513915	⊗	Label, Wiring Diag, MCP-100	1	-	-
	8513903	⊗	Label, Wiring Diag, MCP-100	-	1	1
13	8518291	⊗	Label, Control Panel	1	1	1
14	8506223		Timer, Air-Inj, 115V, w/Brkt	1	-	-
	8506194	⊗	Timer, Air-Inj, 230V, w/Brkt (Parts for both on page C-39)	-	1	1
15	8513862		Xfmr, 220V, 24V	1	1	1
16	4015303		Contactor, 20A, 2-Pole, 24 VAC	1	1	1
17	8513912	⊗	Relay Assy, 24 VDC	1	1	1
18	1096135	⊗	MSCR, PNH, SS, 2-56 x 3/8	-	-	-
19	8513856	⊗	Delay Assy, Time	1	1	1
20	8513884 <sup>4</sup>	⊗	Capacitor Assy, Time-Delay (Includes item 21)	1	1	1
21	- - - - - <sup>4</sup>		Literature 9P-340 (Installation Instructions)	ref	ref	ref
22	8502203	⊗	Switch, Toggle, Momentary	1	1	1
23	8519140		Switch, Toggle, DPDT	1	1	1
24	1931828		Fuse, 3.00A, 250V, Slow, 1.25 x .25	1	1	1
25	8506109		Holder, Fuse	1	1	1
26	8513875		Holder, Fuse, 2-Pole	1	1	1
27	8513877	⊗	Insulator, Fiberboard	1	1	1
28	4079102	⊗	Grommet, 0.38 ID x 0.88 OD	1	1	1
29	4079106		Grommet, 0.65 ID x 1.18 OD	1	1	1
30	4012594		Plug, Int, Plstc, 0.88	2	2	2
31	3551897		Lug, Ground, 14 to 8 AWG	3	3	3
32	1096200		MSCR, PNH, SS, 10-24 x 1/2	3	3	3
33	1235384		Washer, Lock, Intl-T, SS, #10	6	6	6
34	1204379		Nut, Hex, Mscr, SS, 10-24	3	3	3
35	1027265		TFSCR, PNH, SS, 8-18 x 1/2 AB	4	4	4
36	3551200		Nut, Speed, #8	4	4	4
37	8513855	⊗	Cover, Control Panel	1	1	1
38	8513947	⊗	Gasket, Neo, .25 x .75 x 14.25	2	2	2
	8513948	⊗	Gasket, Neo, .25 x .75 x 11.16	2	2	2
39	8505776		Label, Ground, International	3	3	3
40	8506167		Label, Bou-Matic, 3.0 x 10	1	1	1
41	4016123		Label, Caution, Disconnect-Power	1	1	1
42	8516133 <sup>3</sup>	⊗	Kit, Upgrade, LLC, w/o Contactor (Parts on page C-3)	a/r	a/r	a/r

## NOTE:

- Coil 851349 used only on contactors with stamped sheet metal base. Coil 8513950 used only on gould contactors.
- Early controls using coil 8513881 require replacement of entire contactor 8513861.
- Upgrade kit 8516133 replaces items 17, 19, 20.
- Not supplied with control panels.

# Control Panel Assemblies

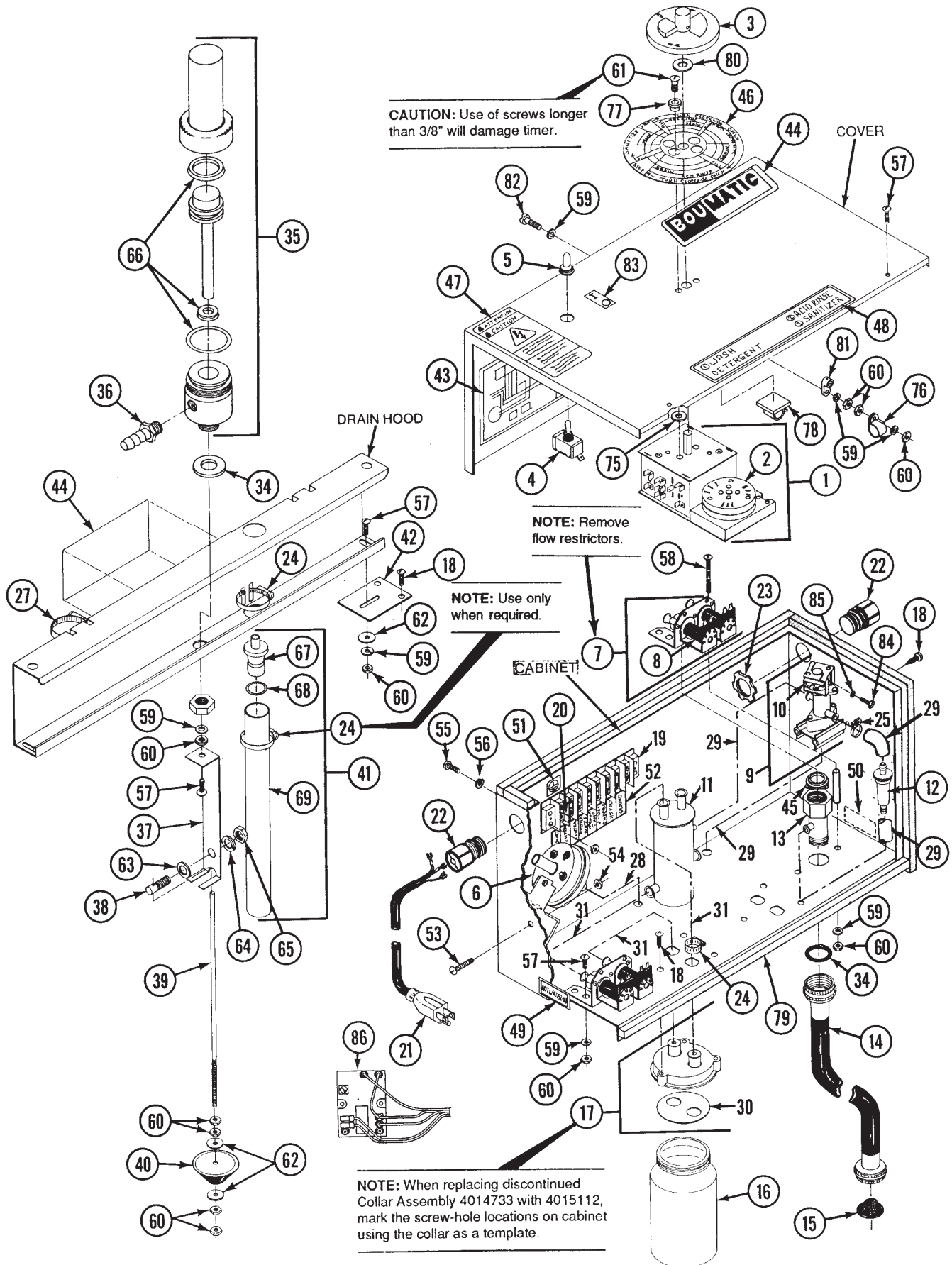


# Control Panel Assemblies (Cont.)

ITEM	PART NO.	⊗ OBSOLETE		DESCRIPTION	QTY REQUIRED (A/T=AS REQUIRED)		
	8513955	⊗		Control Panel Assy	3955		
	8516833	⊗		Control Panel Assy	6833		
	8509988			Control Panel Assy	9988		
1	8513957			Xfmr, 230V, 24/52V, 50/60Hz	1	1	1
2	4015303			Contactor, 20A, 2-Pole	1	-	-
	4021976			Contactor, 2-Pole, 1 Hp	-	1	-
	8518517			Contactor, 3Hp, 1Ph	-	-	1
3	8513963	⊗	n/s	Contactor, 40A, 2-Pole	1	-	-
4	8514091			Xfmr, 230V, 26V, 50/60Hz	1	1	1
5	8516828			Breaker, Ckt, 15A, VDE	2	2	2
6	8513978			Block, Terminal, 2-Position	1	3	-
	1917660			Connector, Term Strip, 2 Pos	-	-	3
7	8513952			Lug, Ground, 14 to 4 AWG	2	2	2
8	3551897			Lug, Ground, 14 to 8 AWG	2	2	2
9	8513985			PWB Assy, Liq Level Timer	1	1	1
10	8513986			PWB Assy, Air Inj Timer	1	1	1
11	8513990	⊗		Label, Field Wiring	1	-	-
	8516851	⊗		Label, Field Wiring, Master	-	1	-
	8510159			Label, Field Wiring, Master	-	-	1
12	8618588	⊗		Module Base Assy, 45/52/60PPM	1	1	-
	8609330	⊗		Module Base Assy, ParlorMetrix	-	-	1
13	8513958			Meter, Hour, 24V	1	1	1
14	8516827			Switch, PB, S PST, Mom	1	1	1
15	8516826			Switch, Toggle, DPDT, VDE	1	1	1
16	8513994	⊗		Label, Wiring Diag	1	-	-
	8515612			Label, Wiring Diagram, Master CP	-	1	-
17	8506167			Label, Bou-Matic, 3.0 x 10	1	1	1
18	4016123			Label, Caution, Disconnect-Power	1	1	-
	8504733			Label, Wiring, Electrical	-	-	1
19	8513980	⊗		Label, Milk Pump	1	-	-
	8516834			Label, Switches, Master Control	-	1	1
20	8513992			Gasket, Neo, .38 x .75 x 20.50	2	2	2
21	8513993			Gasket, Neo, .38 x .75 x 11.12	2	2	2
22	8513999			Trim, Seal, 3.750	2	2	2
23	3551467			Nut, Speed, SS, #8	1	1	1
24	8516825			Breaker, Ckt, 5A, VDE	-	1	1
25	-----			Literature 9E-417 (Installation & Service Instructions)	ref	ref	ref



## Wall Mounted Pipeline Washer





# Wall Mounted Pipeline Washer

SECTION	PAGE
<b>C</b>	<b>9</b>
EFFECTIVE:	10/10/05

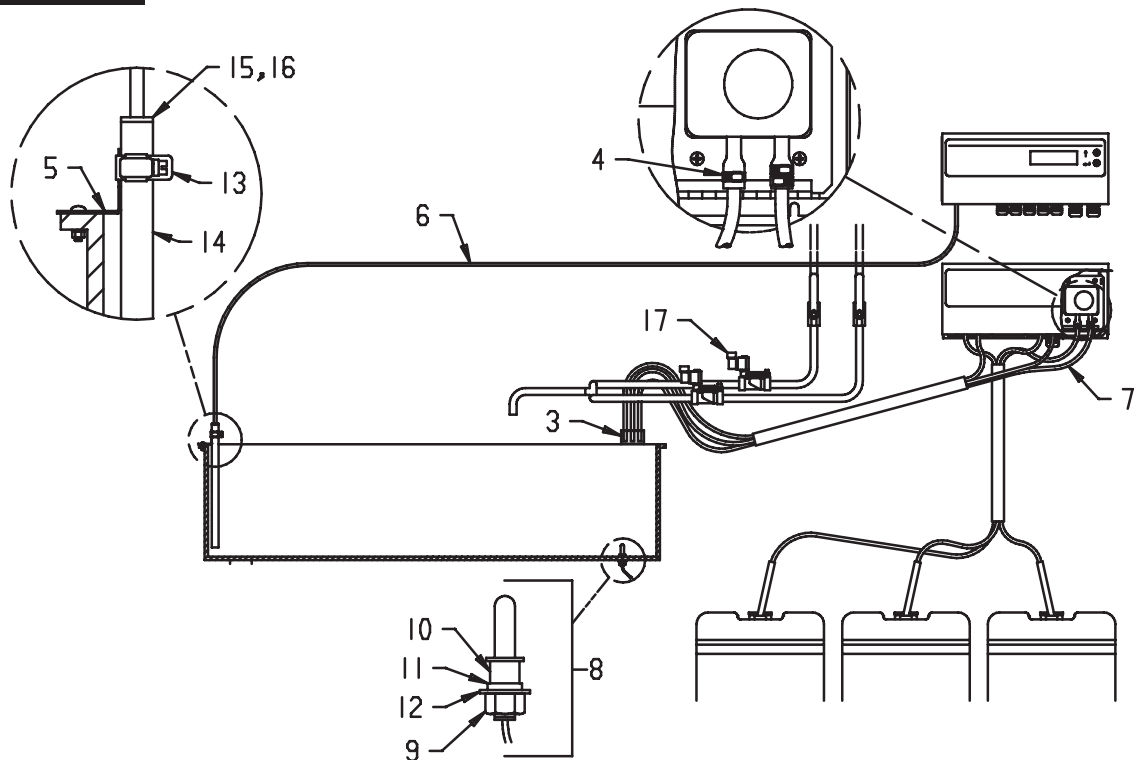
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=f=AS REQ.)
—	<b>8505001</b>	⊗	<b>Washer, Pipeline, Wall-Mtd, 120V</b>	<b>001</b>
—	<b>8505768</b>	⊗	<b>Washer, P/L, 230V, 50/60Hz</b>	<b>768</b>
1	8505074 <sup>6</sup>	⊗	Kit, Timer, Washer, Drain-NO (Includes items 2, 43 & Timer 8505783)	1 -
	8505783	⊗	Timer, Pipeline Washer, 230V (Includes motor)	- 1
2	8505042		Motor, Timer, 115V/60Hz, 3W	1 -
	8505772 <sup>2</sup>	⊗	Motor, Timer, 230V, 50/60Hz	- 1
3	8505057		Knob, Timer	1 1
4	4079115	⊗	Switch, Toggle, SPST	1 -
	8516824		Switch, Toggle, DPST, On-Off, VDE	- 1
5	3551793		Seal, Toggle-Switch	1 -
6	8518190		Switch, Pressure, Fill	1 1
7	8519549		Valve, Solenoid, Dual-Outlet, 120V	2 -
	4015918		Valve, Solenoid, 2-Out, 230V (Each includes 2 of items 8 & 8a, and 1 of item 8b)	- 2
8	8519143		Coil, Solenoid-Valve, 120V	4 -
	4014959		Coil, Solenoid-Valve, 230V	- 4
8a	8516959	n/s	Diaphragm, N-43 or S-30	4 4
8b	8504074	⊗ n/s	Body, Valve, Solenoid	2 2
9	8505017		Valve, Solenoid, 3-Way, NO, 120V	1 -
	8505061		Valve, 3-Way, 240V/60, 220V/50 (Includes item 10) (See item 26 for valve repair kit)	- 1
	8505043	⊗	Coil, Solenoid-Valve, 120V	1 -
10	8506247	⊗	Coil, Solenoid-Valve, 240V	- 1
	8506277 <sup>3</sup>	⊗	Coil, Solenoid-Valve, 208V	- or 1
11	8505035		Chamber, Mixing	1 1
12	8505046	⊗ n/s	Filter, In-Line, 40-Micron BZ	1 -
	8505098		Filter, In-Line, 37 Micron	- 1
13	8505011		Tee, Hose Adaptor	1 1
14	4011898		Hose Assy, Water Fill, 5 Ft	2 2
15	8505044		Washer, Rubber, w/Screen	2 2
16	4018856		Jar, Plastic, 1 Quart	2 2
17	4014733	⊗	Collar Assy, Jar	2 -
	4015112		Collar Assy, Jar (shown)	2 2
18	1023202		TCSCR, PNH, SS, 10-24 x 3/4 T	8 8
	4014171	⊗ n/s	Block, Terminal, 6-Position	1 -
19	8505052	⊗	Block, Terminal, 8-Position	1 -
	8505746	⊗ n/s	Block, Terminal, 6-Position	- 1
20	8505053	⊗	Jumper, Terminal Block	1 -
21	4011490	⊗	Cord Assy, 3-Cond, 16Ga, 9 Ft	1 -
22	1917532		Conn, Str-Rlf, .27-.46, 1/2 NPT	2 2
23	8513814		Nut, Lock, Conduit, 1/2 NPT	2 2
24	4012220		Clamp, Hose, SS, #8, .50-.91	13 14
25	8510104		Clamp, Hose, SS, #7, .25-.62	5 7
26	8505784	⊗ n/s	Kit, Repair, 3-Way, Sol Valve	a/r a/r
27	8510101		Clamp, Hose, SS, #20, .81-1.75	1 1
28	8505032		Hose, Vinyl, .19 x .062W, Clr	a/r a/r
29	8505018	⊗	Hose, Vinyl, Reinf, .25 x .125W	a/r a/r
30	8518772		Gasket, Jar	2 2
31	8505785		Hose, PVC, Reinf, .50 x .156W	a/r a/r
32	-----			
33	-----			
34	4015418		Washer, Hose	2 2
35	8505025 <sup>1</sup>	⊗	Cylinder, 1 In. Stroke	1 -
	8505791		Cylinder, Air, 1.06 x 1.00	- 1
36	8570069		Adapter, 1/4 Hose x 1/8 NPT	1 1
37	8505024	⊗	Bar, Lock, Drain-Rod	1 1
38	4012228	⊗	Bolt, Lock, 3/8-16	1 1
39	8505031	⊗	Rod, Stopper, 11.00 Lg	1 1
40	4012208	⊗	Stopper, Drain, Rubber	1 1
41	8505009		Tube Assy, Level-Control (Includes items 67 thru 69)	1 1
42	8505050	⊗	Adapter, Mounting Hood	2 2
	8505037	⊗	Label, Wiring Diag	-
43	8505063		Label, Wiring Diag	1 -
	8505749	⊗	Label, Wiring Diag, 50/60Hz	- 1
44	8506120		Label, Bou-Matic, 2.25 x 6	2 -
	8506279		Label, Bou-Matic, 1.5 x 4	- 2


45	4015418		Washer, Hose	1	1
46	8505004	⊗	Label, Pipeline-Timer	1	1
	85168325	⊗ n/s	Label, Pipeline Wshr, Guardian I	1	1
47	4016123		Label, Caution, Disconnect-Power	1	-
	8505775		Label, Caution, Disconnect-Power	-	1
48	8505045	⊗	Label, Detergent-Sanitizer	1	1
49	4011984	⊗	Label, Hot-Water-In	1	1
50	4011985	⊗	Label, Cold-Water-In	1	1
51	8505776		Label, Ground, International	1	1
52	4011931	⊗	Label, Terminal Block	1	-
	8505770	⊗	Label, Terminal, 230V	-	1
53	1002157	⊗	MSCR, RDH, SS, 4-40 x 1	1	3
54	1204376		Nut, Hex, Mscr, SS, 4-40	1	3
55	1096183		MSCR, PNH, SS, 8-32 x 3/4	2	-
56	1209383		Wshr, Lock, Hlcl Spr, SS, #8	2	-
57	1096200		MSCR, PNH, SS, 10-24 x 1/2	5	6
58	1002210		MSCR, RDH, SS, 10-24 x 2-1/4	2	2
59	1209384		Wshr, Lock, Hlcl Spr, SS, #10	5	-
	1235384		Washer, Lock, Intl-T, SS, #10	-	17
60	1204379		Nut, hex, Mscr, SS, 10-24	7	17
61	1096216		MSCR, PNH, SS, 10-32 x 3/8	2	-
	1096220		MSCR, PNH, SS, 10-32 x 3/4	-	2
62	4012196	⊗	Wshr, SS, .203 x .750 x .060	4	4
63	1208388		Washer, Plain, SS, 3/8	1	1
64	1209388		Wshr, Lock, Hlcl Spr, SS, 3/8	1	1
65	1203354		Nut, Hex, SS, 3/8-16	1	1
66	8505095		Kit, Seal, Drain Cylinder	1	1
67	8505790		Adapter, Tube, Level Control	1	1
68	4015689		O-ring, 0.424 x .103	1	1
69	8505789		Tube, SS, .750 x .049 x 13.38	1	1
70	-----		Literature 9E-454 (Installation & Operation Instructions)	-	ref
71	8505036	⊗ n/s	Wire Harness	1	-
	8505761	⊗ n/s	Wire Harness, P/L, 230V	-	1
72	1979007	n/s	Tie, Cable, 11.50 x .18	a/r	a/r
73	4079151	n/s	Hose, Vinyl, 1.00 x .125W, Clr	a/r	a/r
74	8505083	⊗ n/s	Kit, Cylinder Replacement (Includes wider drain hood and 8505791 cylinder)	1	-
75	8505747	⊗	Wshr, Nylon, .39 x .75 x .25	-	2
76	8505771	⊗	Clamp, Cable, 9/16, Nylon	-	2
77	8505748	⊗	Bushing, Nylon, #10	-	2
78	3553128		Clamp, Cable, 1/2 Dia, Adh	-	2
79	8513864	⊗	Tape, Foam, Pressure-Sensitive (Part no. represents 1 foot)	49"	49"
80	4016501		Gasket, Timer Shaft	-	1
81	3551897		Lug, Ground, 14 to 8 AWG	-	3
82	1096202		MSCR, PNH, SS, 10-24 x 3/4	-	1
83	8505777		Label, On-Off, International	-	1
84	1024177		TCSCR, PNH, SS, 8-32 x 1/4 F	-	1
85	1235383		Washer, Lock, Intl-T, SS, #8	-	1
86	8507312 <sup>4</sup>		Kit, P/W Timer, 120V (Includes installation instructions)	1	-
	8507311 <sup>4</sup>		Kit, P/W Timer, 220V (Includes installation instructions)	-	1

## Note:

- When replacing Cylinder 8505025, use kit, item 74.
- To replace discontinued Motor 8505772, use Timer 8505783 (which includes motor).
- For use with low-voltage applications.
- Not supplied with P/L washer. Used with existing timer to allow for adjustment of detergent circulation time.
- Pipeline washer label replaces older style timer label (8505004) and also all other labels on washer cover, items 44, 47, 48 & 83.
- The PW-100 115V Timer is no longer available. P/N 8505783 may be modified as a replacement (Note: If timer motor is reusable on older 115V timer, replace just the Timer - 8505783, not the complete kit - 8505074). Replacement procedure (Ref. Literature 9E-870):
  - Replace the motor on the timer with a 115 volt motor.
  - Install a jumper from P2 to L1.
  - If the wiring label is not current, replace it with item 43.

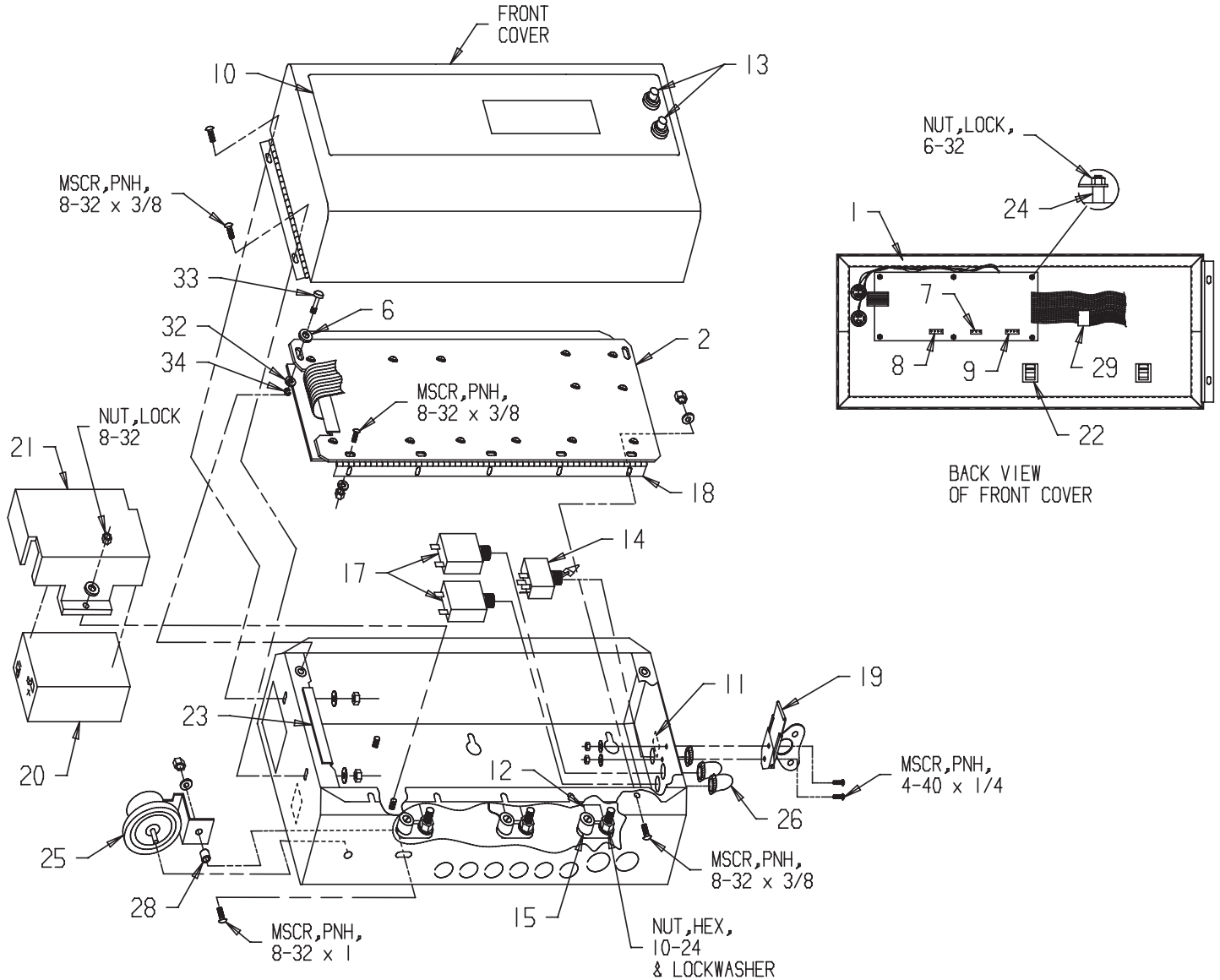
## Guardian II Pipeline Washer



ITEM	PART NO.	 OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (A/R=AS REQUIRED)						
	8516325		Washer, Guardian II, w-1/2" Valves	325						
	8515270		Washer, Guardian II, w-3/4" Valve	270						
	8515271	⊗	Washer, Guardian II, w-1" Valve	271						
	8515272	⊗	Washer, Guardian II, w-1.5" Valve	272						
	8515273	⊗	Washer, Guardian II, w-2" Valve	273						
	8516983		Guardian II Assy, w/o Valves	983						
1	-----		Control Assy, Electrical (Parts on page C-11)	1	1	1	1	1	1	1
2	-----		Control Assy, Pump (Parts on page C-12)	1	1	1	1	1	1	1
3	8516996		Bracket, Tube	1	1	1	1	1	1	1
4	8516844		Clamp, Hose, SS, #6, .31-.88	9	9	9	9	9	9	9
5	8516994		Bracket, Fill Tube	1	1	1	1	1	1	1
6	8505032		Hose, Vinyl, .19 x .062W,Clr	a/r	a/r	a/r	a/r	a/r	a/r	a/r
7	8516999		Hose, Poly, Nat, .25 ID x 100 Ft	a/r	a/r	a/r	a/r	a/r	a/r	a/r
8	8516995		Sensor, Temperature, Guardian II (Includes items 9-12)	1	1	1	1	1	1	1
9	1203368		Nut, Hex, SS, 7/16-20	1	1	1	1	1	1	1
10	8516998		Gasket, Tube Sensor	1	1	1	1	1	1	1
11	4015418		Washer, Hose	1	1	1	1	1	1	1
12	1208389		Washer, Plain, SS, 7/16	1	1	1	1	1	1	1
13	4012220		Clamp, Hose, SS, #8, .50-.91	1	1	1	1	1	1	1
14	8505789		Tube, SS, .750 x .049 x 13.38	1	1	1	1	1	1	1
15	8505790		Adapter, Tube, Level Control	1	1	1	1	1	1	1
16	4015689		O-ring, 0.424 x .103	1	1	1	1	1	1	1
	8515767	⊗	Valve, Water, .50, 220/240 VAC	2	-	-	-	-	-	-
	8515768	⊗	Valve, Water, .75, 220/240 VAC	-	2	-	-	-	-	-
17	8503077		Valve, Water, 1.00 NPT, 220/240 VAC	-	-	2	-	-	-	-
	8503078		Valve, Water, 1.50 NPT, 220/240 VAC	-	-	-	2	-	-	-
	8503079		Valve, Water, 2.00, 220/240 VAC (See parts on page C-17)	-	-	-	-	2	-	-
18	8516997	n/s	Label, Guardian II, Wires	1	1	1	1	1	1	1
19	-----		Literature 9ES-680 (Installation, Operation & Maintenance Instructions)	ref	ref	ref	ref	ref	ref	ref

# Guardian II Electrical Control Assembly

SECTION	PAGE
<b>C</b>	<b>11</b>
EFFECTIVE:	3/2/12

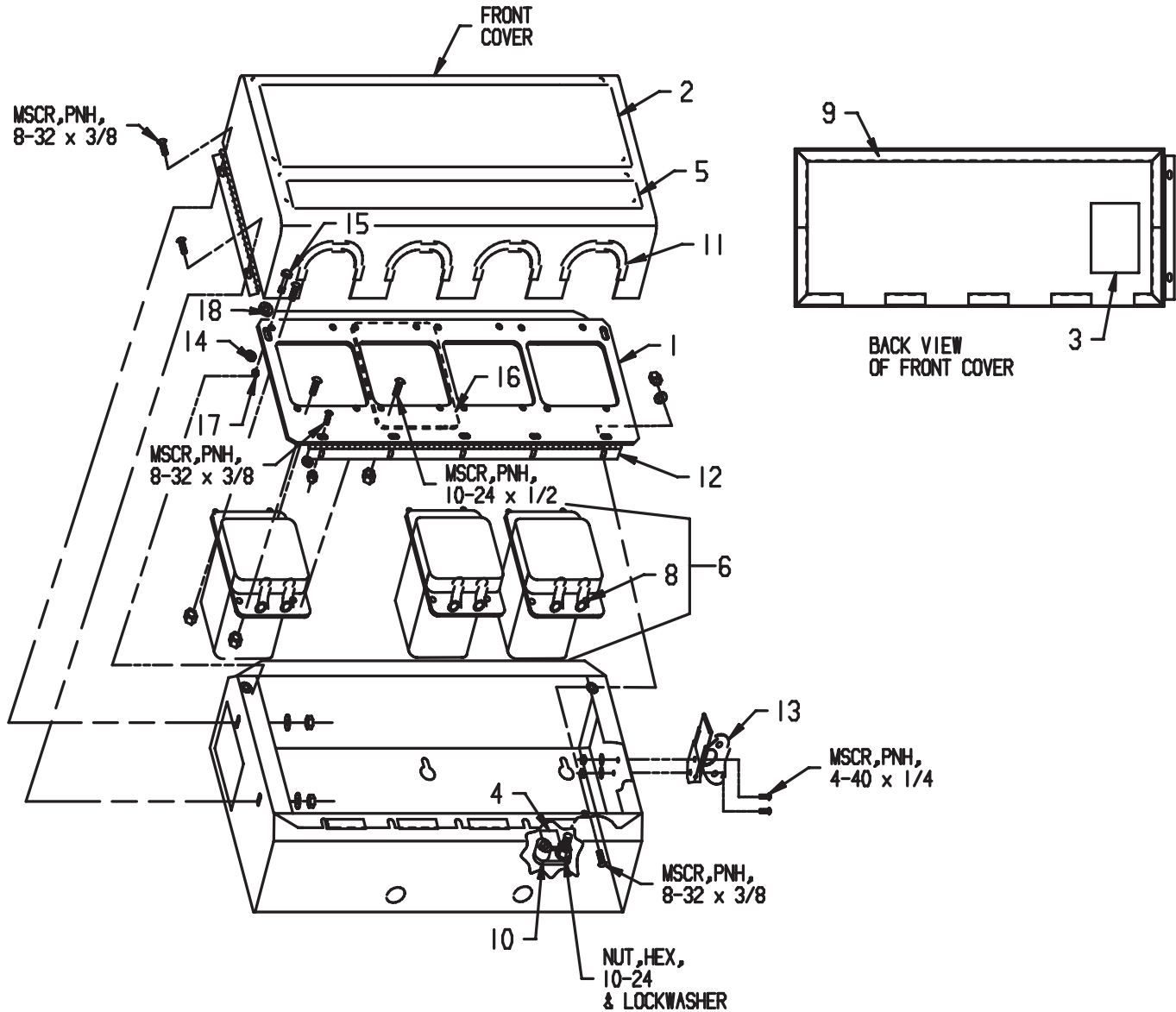


ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQ. (a/r=AS REQ.)
------	----------	-----------------------------	-------------	---------------------------

<b>8516981 Control Assy, Electrical</b>				
1	8516989		Gasket, Wrapper	1
2	8507347		PWB's & Door Assy (Includes Items 3-9)	1
3	1931818	n/s	Fuse, 1.00A, 250V, Slow 1.25 x .25	1
4	1932205	⊗ n/s	FuseHolder, 5 x 20 mm, Plastic (For use with metric size fuses)	6
	1932204	⊗ n/s	FuseHolder, 1.25 x .25, Plstc Cap	6
5	1931833	n/s	Fuse, 6.25A, 250V, Slow 1.25 x .25	6
6	1208384		Washer, Plain, SS, #10	2
7	1917631		Connector, Term Strip, 3 Pos	1
8	1917632		Connector, Term Strip, 4 Pos	1
9	1917633		Connector, Term Strip, 5 Pos	1
10	8516986		Label, Door, Elect Control	1
11	8505777		Label, On-Off, International	1
12	8505776		Label, Ground, International	3
13	1980311		Switch, PB, SPST, Mom	2
14	8516824		Switch, Toggle, DPST, On-Off, VDE	1
15	8513952		Lug, Ground, 14 to 4 AWG	3
16	8516990	n/s	Wire Harness, Circuit Breaker	1
17	8516828		Breaker, Ckt, 15A, VDE	2
18	8516978		Hinge, w/Holes, 16.00"Lg	1
19	8515269		Fastener, Link-Lock	1
20	1912504		Battery, 6V, Lead-Acid	1

21	3554934		Bracket, Battery, 6 Volt	1
22	1914003		Clamp, Cable, 1/2 Dia, Adh	3
23	4016780		Trim, Seal Flexible	a/r
24	1979605	⊗	Spacer, Round, .62 x .14, Nyl	6
25	8518190		Switch, Pressure, Fill	1
26	4015960		Seal, Switch, Ckt-Breaker	2
27	8515437	n/s	Wire Harness, Fill Switch	1
28	1979606		Spacer, Round, .62 x .20, Nyl	1
29	4015321		Clamp, Cable, Self-Stick	1
30	8516987	⊗ n/s	Label, Guardian II, Wiring	1
31	8615293	n/s	Prom Assy, Guardian II, LS I 06/05 - Ver. 1.59 (English, French, German, Dutch, Spanish & Italian)	1
	8682791	⊗	Prom, Rcd, No Carrier, Guardian II, LS I	1
	8601297	⊗ n/s	Prom Assy, Guardian II, LS II 06/05 - Ver. 1.59 (English, Slovakian, German, Dutch, Spanish & Italian)	1
	8682792	⊗	Prom, Rcd, No Carrier, Guardian II, LSII	1
32	1208384		Washer, Plain, SS, #10	4
33	1096206	⊗	Mscr, Pnh, SS, 10-24 x 3/4	2
34	1222379		Nut, Lock, Elastic, SS, 10-24	2
35	8516892	n/s	Filter, EMI, Clamp-on, .5"	1

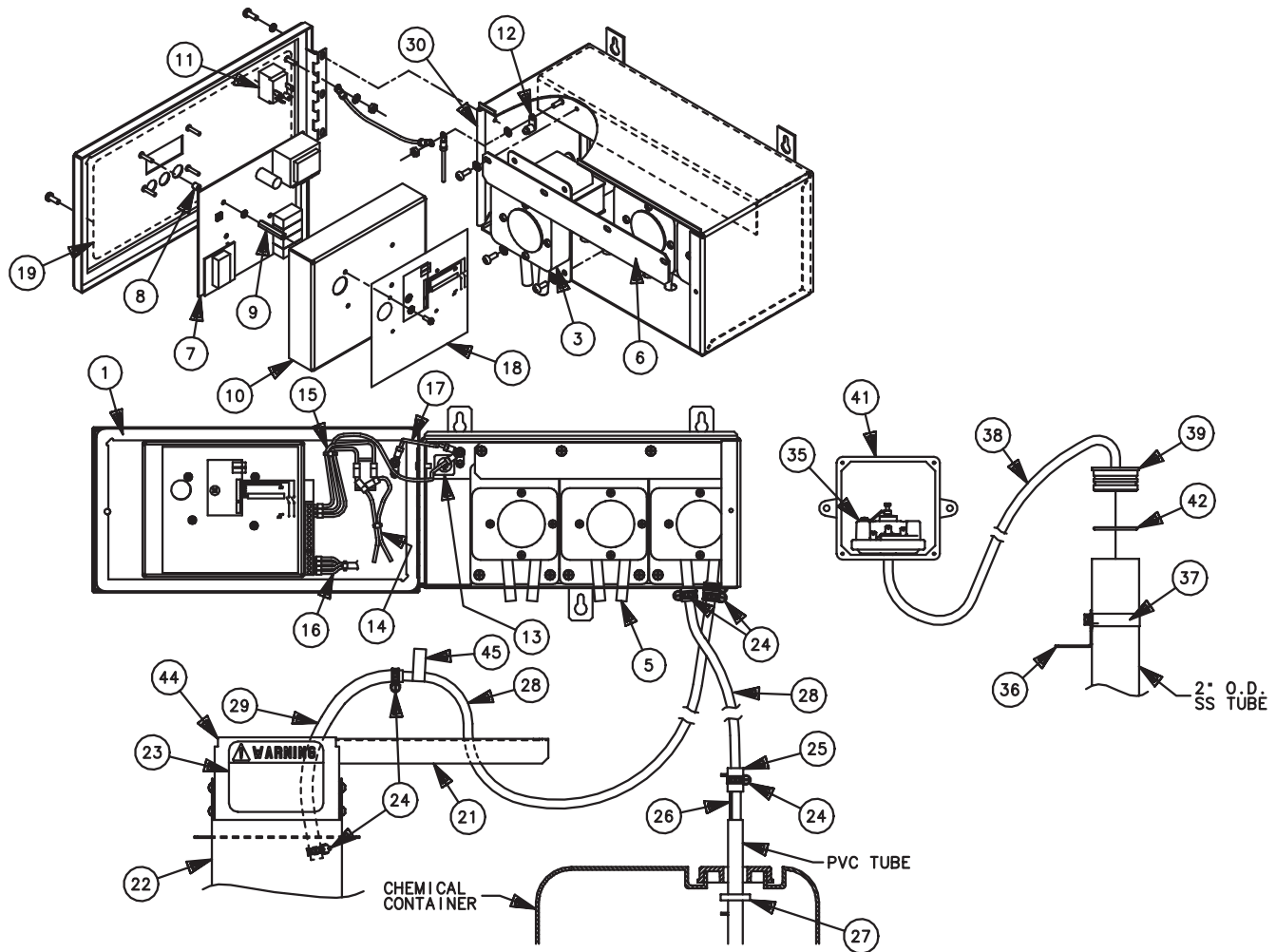
## Guardian II Pump Control Assembly Glacier Guard Pump Control Assembly



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQ. (a/r=AS REQ.)	
	8516984		Control Assy, Pump	984	
	4023253		Control Assy, Pump	253	
1	8515283		Door, Mounting, Motor Unit	1	1
2	8515261		Label, Door, Motor Control	1	-
	4023256		Label, Door, Pump Control	-	1
3	8505775		Label, Warning, Eng/Fr/Gr/Sp Aux	1	-
	4023255		Label, Warning, Eng/Fr/Gr/Sp Aux	-	1
4	8505776		Label, Ground, International	1	1
5	8515264		Label, Chemical, Mixing	1	1
6	8515262		Motor, Chemical (Includes items 7 & 8)	3	3
7	8515885	n/s	Kit, Repair, Chemical Pump (Includes: Housing, Cover, Screws, Washers& Roller Assembly)	a/r	a/r
8	8516164		Kit, Hose, Guardian II (3 Hose)	1	1
	8515267		Hose, Norprene, .25 ID x 25'	a/r	a/r
9	8516989		Gasket, Wrapper	1	1
10	8513952		Lug, Ground, 14 to 4 AWG	1	1
11	4016780		Trim, Seal Flexible	a/r	a/r
12	8516978		Hinge, w/Holes, 16.00"Lg	1	1
13	8515269		Fastener, Link-Lock	1	1
14	8516821	⊗	Washer, Retaining, SS, #10	2	2
15	8507348	⊗	Screw, Captive, SS, 10-24 x 5/8	2	2
16	8507349		Plate, Blank	1	1
17	8515856	⊗	Ring, Retaining, Ext.,.156	2	2
18	1208384		Washer, Plain, SS, #10	2	2

# Dari-Chem Control Assembly

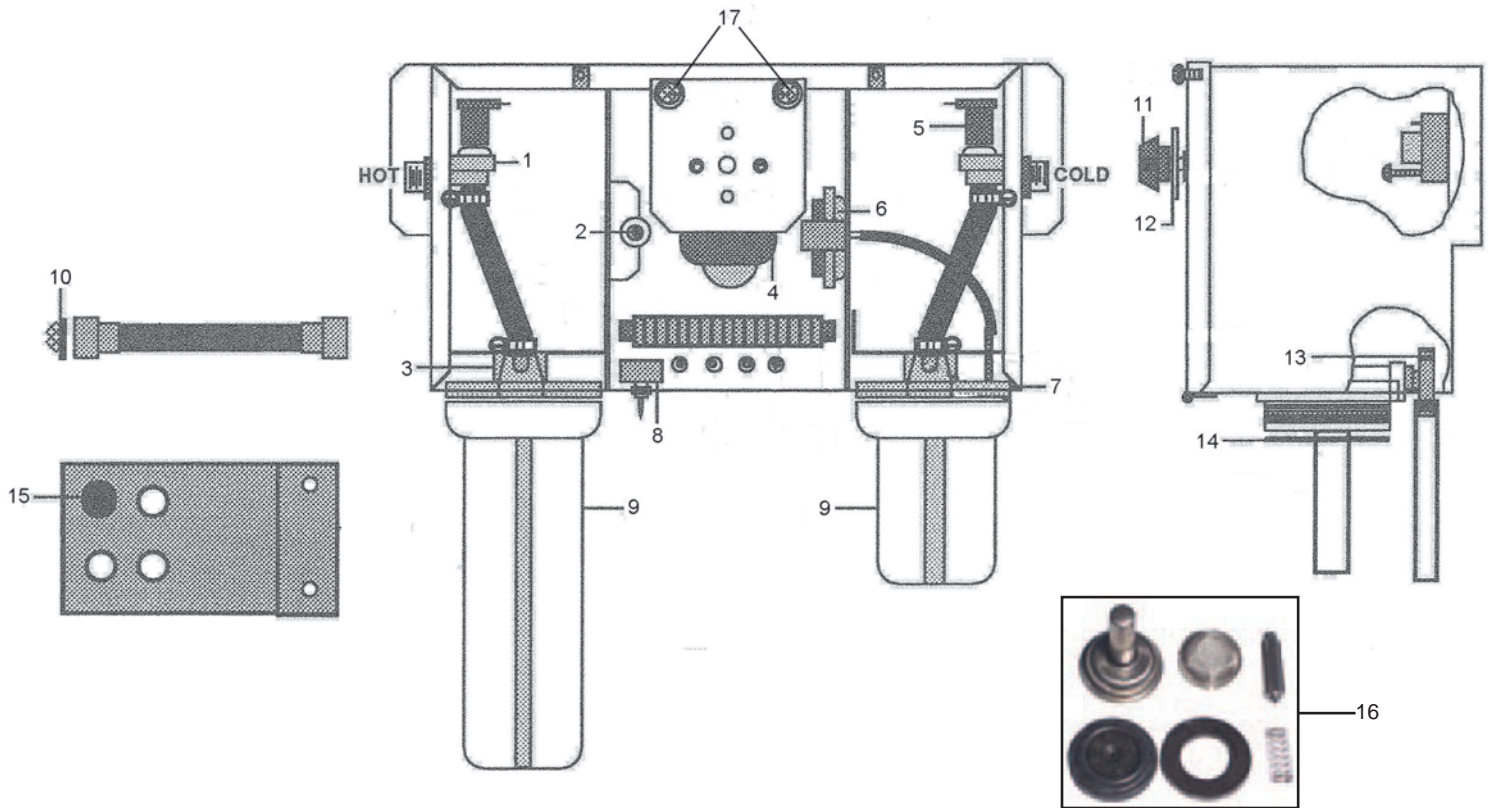
SECTION	PAGE
<b>C</b>	<b>13</b>
EFFECTIVE:	8/9/16



ITEM	PART NO.	ⓧ=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQ. (a/r=AS REQ.)
<b>8502357 Control Assy, Dari-Chem</b>				
1	8502560		Gasket, Cover, Pump Control	1
2	8502372	n/s	Fuse, 2.00A, 250V, Slow, 20mm x 5mm	2
3	8515262		Pump, Chemical (Includes Items 4 & 5)	3
4	8515885	n/s	Kit, repair, Chemical Pump (Includes Housing, Cover, Screws Washers & Roller Assembly)	a/r
5	8516164		Kit, Hose, Guardian II (3 Hose)	1
6	8515267		Hose, Norprene, .25 ID x 25'	a/r
7	8502370		Plate, Mtg, Pump Motor	1
8	8502350		Pwb Assy, Pump Mod (for service of Sani-Dose [3557734] PWB)	1
9	1979609		Spacer, Round, .25 x.14, Nyl	4
10	1979720	ⓧ	Spacer, Thd, Hex, 6-32 x 1.375, Nyl	4
11	8502351		Cover, Electronics, Pump Mod	1
12	8516824		Switch, toggle, Dpst, On-Off, VDE	1
13	3551897		Lug, Ground, 14 to 8 AWG	1
14	8505776		Label, Ground, International	1
15	8502352		Wire Harness, Power, Pump Mod	1
16	8502353		Wire Harness, Power, Switch	1
17	8502354		Wire Harness, Pump, Pump Mod	1
18	8502355		Wire Assy, 16 Ga, Grn, Strd, 9.00	1
19	8502361		Label, Wiring Diag, Pump Mod	1
20	8502343		Label, Cover, Dari-Chem	1
21	8502573	ⓧ	Kit, Bracker & Tube, Chemical (Includes Items 21 thru 29)	1
22	8502569		Bracket, Tube support Arm	1
23	8502568		Door, Tube Shield	1
24	8502567		Label, Warning, Chemical	1

24	8516844		Clamp, Hose, SS, #6, .31-.88	18
25	8502562		Retainer, Hose, Split	3
26	8502563		Retainer, Hose Wire	3
27	8502565		Wshr, Poly, .66 x 1.25 x .25	3
28	8502564		Wshr, Poly, 1.10 x 1.75 x .25	3
29	8516999		Hose, Poly, Nat, .25 ID x 100 Ft	a/r
30	8516891		Hose, Poly, Nat, .37 ID x 100 Ft	a/r
31	4016780		Trim, Flexible, Seal	a/r
32	-----		Literature 9ES-761 (Installation Instructions)	a/r
33	-----		Literature 9E-781 (Installation Instructions, bracket)	a/r
34	8502703	ⓧ	Kit, Support Arm (includes items 21 thru 24)	a/r
35	8502704	ⓧ	Kit, Level Switch, Dari-Chem (Includes items 35 thru 43)	a/r
36	8518190		Switch, pressure, Full	1
37	8516994		Bracket, Fill Tube	1
38	8514033		Clamp, Hose, SS, #36, 1.80 - 2.75	1
39	8505032		Hose, Vinyl, .19 x .062W, Clr	a/r
40	8502702		Adapter, Tube, Level Control	1
41	8502698	n/s	Label, Warning, Junction Box	1
42	3557209		Box, Junction, 4 x 4 x 4	1
43	3553693		O-Ring, 1.674 x .103, Buna-N	1
44	-----		Literature, 9E-782 (Installation Instructions, Level Switch)	a/r
45	8502570		Bracket, Tube Support	1
46	8516997		Label, Guardian, Hose	1

## Guardian JW



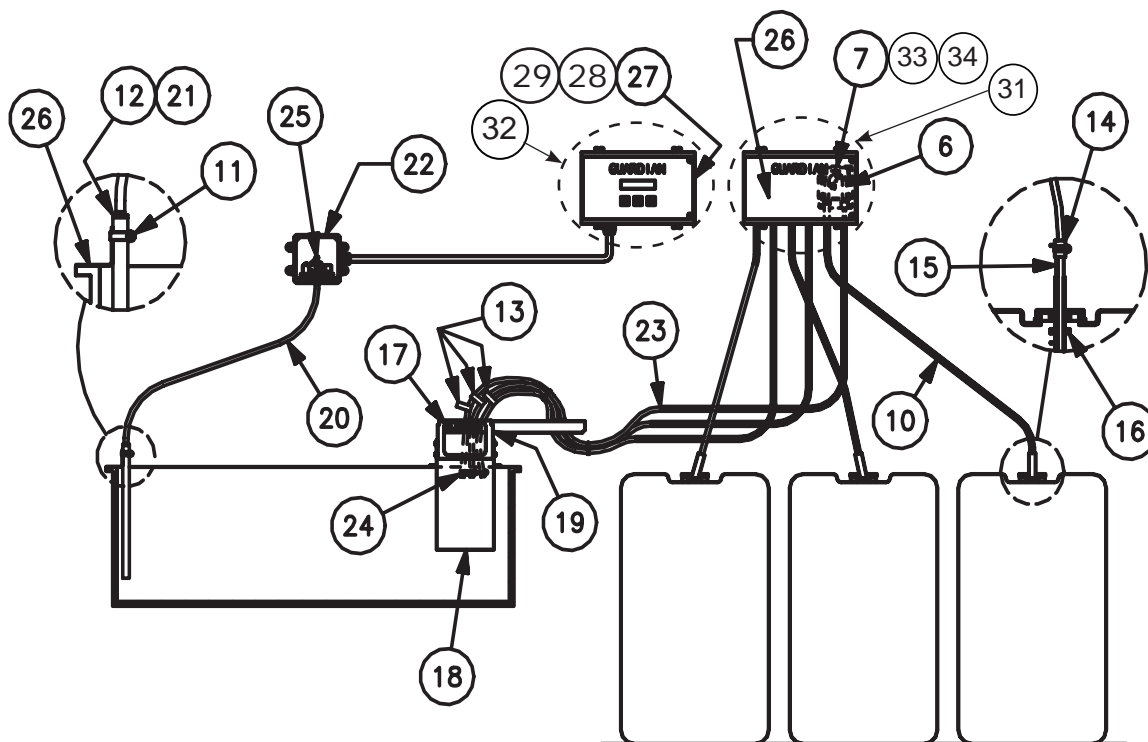
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
---	4041386		WASHER, PIPELINE, 2-JAR, 120V	1386	
---	4041387		WASHER, PIPELINE, 2-JAR, 240V		1387
1	4041408		VALVE, WATER, 120V	2	-
	4041499		VALVE, WATER, 240V	-	2
2	4041407		CIRCUIT BREAKER, 10A	1	1
3	4041406		ASSY, DETERGENT JAR TOP	1	1
4	4041405		TIMER, 120V, STAND 8 MINUTE WASH	1	-
	4041404		TIMER, 240V, STAND 8 MINUTE WASH	-	1
	4041403		MOTOR, 120V, TIMER, 120V, 6 MINUTE WASH	1	-
	4041502		MOTOR, 240V, TIMER	-	1
5	4041402		COIL, 110 VAC	4	-
	4041503		COIL, 240V	-	4
6	4041401		SWITCH, PRESSURE	1	1
7	4041400		ASSY, ACID JAR TOP	1	1
8	4041399		SWITCH, DPDT TOGGLE	1	1
9	4041398		JAR, DETERGENT AND ACID	2	2
10	4041397		GASKET, HOSE	6	6
11	4041396		KNOB, TIMER	1	1
12	4041395		INDICATOR, DIAL	1	1
13	4041394		ASSY, RUN TEE CHECK VALVE	1	1
14	4041393		GASKET, DETERGENT AND ACID JAR	2	2
15	4041392		BUSHING, PRESSURE SWITCH	1	1
16	4041391	⊗	KIT, WATER VALVE REPAIR	a/r	a/r
	127900	n/s	KIT, REPAIR, SOLENOID	a/r	a/r
17	4041516		LAMP, PIPELINE WASHER, JW, 120V	2	-
	4041515		LAMP, PIPELINE WASHER, JW, 240V	-	2



# Guardian/Guardian Supreme

SECTION C  
EFFECTIVE: 7/29/13

PAGE 15



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
-	8507517	⊗	Kit,Guardian Supreme,STD	517	-
-	8507518	⊗	Kit,Guardian Supreme,3Way	518	-
-	8510276		Kit,Guardian,Washer & Fill (N.A.)	-	276
1	8510904 <sup>1</sup>	⊗	n/s EPROM,Guardian,V2 (Version 2.xx, 2006 & earlier)	1	1
	8584803 <sup>2</sup>	n/s	GUARDIAN SUPREME MEMORY (Version 3.xx, 2007 - current)	1	1
3	8510906	n/s	Kit,PWB Set,Guardian Washer (Both Relay & Processor Boards must be returned)	1	1
4	8507717	n/s	Fuse,5x20,2A Slow,Pk of 10	a/r	a/r
5	8507718	n/s	Fuse,5x20,.63A Slow,Pk of 10	a/r	a/r
6	8507719		Hose,U,Guardian Pump (included barb connectors)	3	3
7	8507720		Pump,Chemical,Guardian	3	3
8	8507721	⊗	n/s Sensor,200MM,Guardian	1	1
9	8507722	⊗	n/s Sensor,600MM,Guardian	1	1
10	8508821		HOSE,PVC,.31X.44,CLR,100'(30M)	a/r	a/r
11	4012220		Clamp,Hose,SS, #8, .50- .91	1	1
12	4015689		O-Ring,0.424 x .103	1	1
13	8516997		LABEL,GUARDIAN II,WIRES+HOSES	1	1
14	8502562		Retainer,Hose,Split	3	3
15	8502563		Retainer,Hose,Wire	3	3
16	8502565		WSHR,POLYE, .855 X1.50 X .25	3	3
17	8502567		Label,Warning,Chemical	1	1
18	8502568		Door,Tube Shield	1	1
19	8502570		Bracket,Tube Support	1	1
20	8505028		HOSE,VINYL,.19 X 72.00	-	1
21	8505790		Adapter,Tube,Level Control	-	1
22	8510274		Box,Junction,4 x 4 x 4,W/Holes	-	1
23	8510275		Hose,Vinyl, .19 x .031W,Clear	a/r	a/r
24	8516844		Clamp,Hose,SS, #6, .31- .88	3	3
25	8518190		Switch,Pressure,Fill	-	1
26	8511109	⊗	Label, Chemical, Guardian	1	1
27	8502698		LABEL,WARNING,JUNCTION BOX	1	1
28	8584801 <sup>2</sup>		GUARDIAN SUPREME KEYBOARD	1	1
	F10558 <sup>1</sup>	⊗	DISPLAY LABEL GUARDIAN V.1/2	1	1
29	F10559 <sup>1</sup>	⊗	LABEL,DISPLAY,GUARDIAN V.3	1	1
30	8583865 <sup>2</sup>	n/s	PCB OPTION GUARDIAN SUPREME Extension Board for GM Parlors	1	-
31	8583863 <sup>2</sup>		PUMP BOX, GUARDIAN SUPREME	1	1
32	8583862 <sup>2</sup>		MAIN BOX, GUARDIAN SUPREME	1	1
33	8589551	n/s	PCB,PUMP,GUARDIAN SUPREME	1	1
34	8587691	n/s	Internal Rollers,Guardian Pump	1	1
35	8507545	⊗	n/s VALVE,3-WAY,WASHER,AIR-OPER	a/r	a/r
36	8507544	⊗	n/s ELECTRO VALVE PILOT ASSY	a/r	a/r
37	8583864	n/s	PILOT BOX VALVE	a/r	a/r

## NOTE:

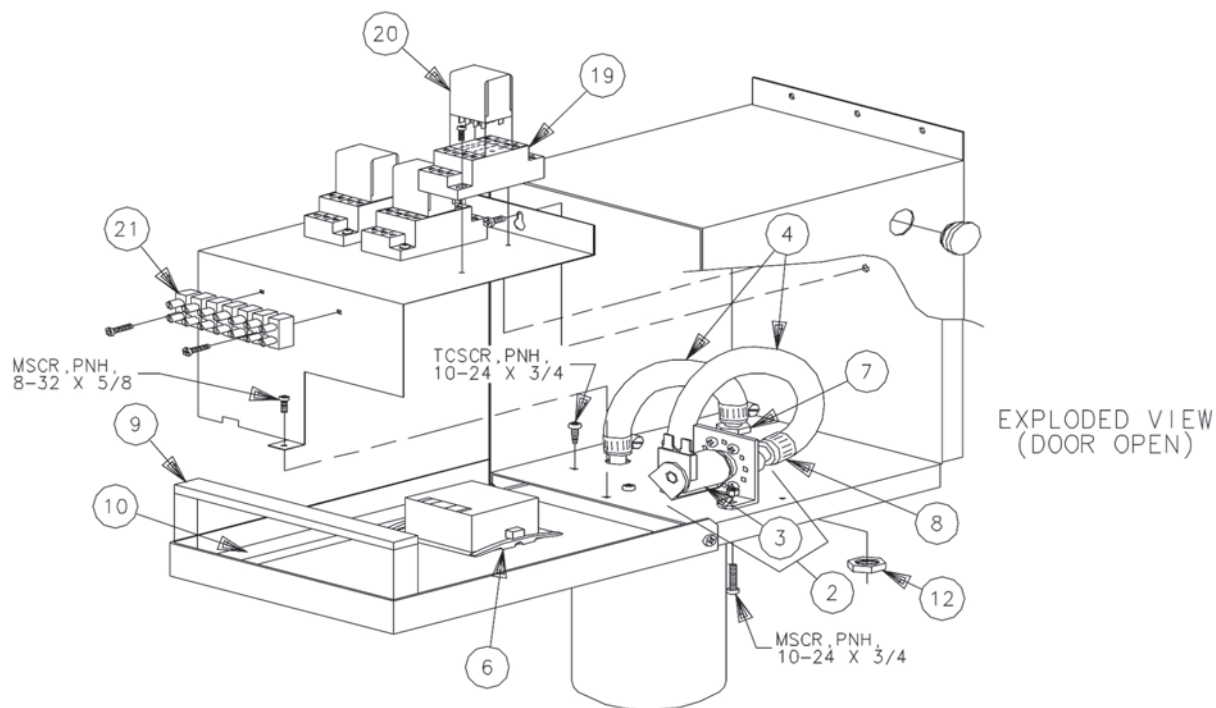
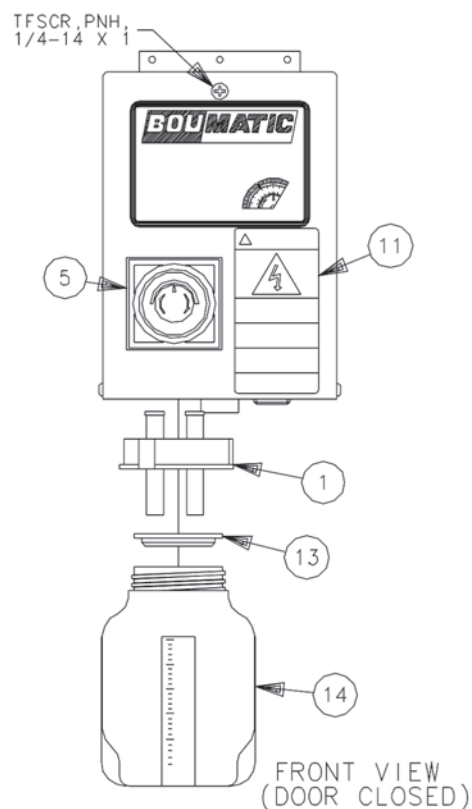
1. Only to be used with Guardian Washer.

2. Only to be used with Guardian Supreme Washer.



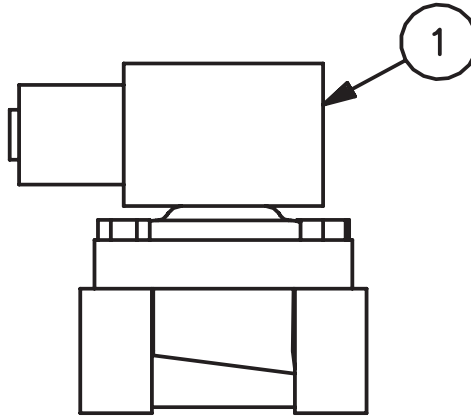
## Sanitizer Assembly 115V & 230V

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	<b>8505792</b>	⊗	<b>Sanitizer Assy, 24 Hr, 230V</b>	<b>5792</b>	
	<b>8506792</b>	⊗	<b>Sanitizer Assy, 24 Hr, 115V</b>	<b>6792</b>	
1	4014944		Collar, Jar	1	1
2	8506788		Valve, Solenoid, 1-Out, 240V	1	-
	8506794	⊗	Valve, Solenoid, 1-Out, 120V (Each includes items 3, 3a and 3b)	-	1
3	4014959		Coil, Solenoid-Valve, 230V	1	-
	8519143		Coil, Solenoid-Valve, 120V	-	1
3a	8516959	n/s	Diaphragm, N-43 or S-30	1	1
3b	8504074	n/s	Body, Valve, Solenoid	1	1
4	8505785		Hose, PVC, Reinf, .50 x .156W	a/r	a/r
5	8506288	⊗	Timer, 24-Hour, 240V, SPST, Adj	1	-
	8506796	⊗	Timer, 24-Hour, 120V, SPST, Adj	-	1
6	4020357	⊗	Clip, Timer Mounting	2	2
7	8506287	⊗	Fitting, Bulkhead, 1/2 x 5/8	1	1
8	4012220		Clamp, Hose, SS, #8, .50-.91	4	4
9	8506291	⊗	Gasket, Neo, .25 x .75 x 6.87	1	1
10	8506290	⊗	Gasket, Neo, .25 x .75 x 9.00	2	2
11	8505775		LabelWarning, Eng/Fr/Gr/Sp Aux	1	1
12	8506783	⊗	Nut, Hex, Plstc, 3/4-16	1	1
13	8518772		Gasket, Jar	1	1
14	4018856		Jar, Plastic, 1 Qt	1	1
15	4011898	n/s	Hose Assy, Water Fill, 5 Ft	1	1
16	4015418	n/s	Washer, Hose	1	1
17	8514041	n/s	Plug, Int, Plstc, .88, CSA	1	1
18	8505044	n/s	Washer, Rubber, w/Screen	1	1
19	8506293		Socket, Relay, HC	3	3
20	8506292		Relay, 4PDT, 240V, 5A	3	-
	8506795		Relay, 4PDT, 115V, 5A	-	3
21	1917626	⊗	Connector, Term Strip, 7-Pos	1	1
22	- - - -		Literature 9E-609 (Installation & operation instructions)	a/r	a/r



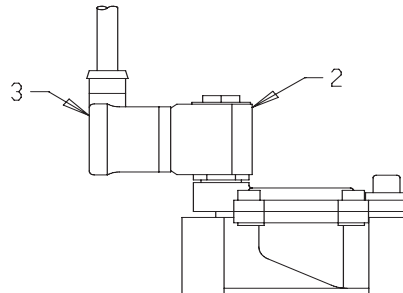
## 220/240V ASCO Water Valves

SECTION	PAGE
<b>C</b>	<b>17</b>
EFFECTIVE:	2/21/17



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)				
	8503075		Valve, Water, .50 NPT, 220/240 VAC	075				
	8503076		Valve, Water, .75 NPT, 220/240 VAC	076				
	8503077		Valve, Water, 1.00 NPT, 220/240 VAC	077				
	8503078		Valve, Water, 1.50 NPT, 220/240 VAC	078				
	8503079		Valve, Water, 2.00 NPT, 220/240 VAC	079				
1	8503186	⊗	Coil, Water Valve, Asco	1	1	1	1	1
2	8503187	⊗	n/s Kit, Repair, Water Vlv, Comp, 0.50	1	-	-	-	-
	8503188	⊗	n/s Kit, Repair, Water Vlv, Comp, 0.75	-	1	-	-	-
	8503189	n/s	Kit, Repair, Water Vlv, Comp, 1.00	-	-	1	-	-
	8503190	⊗	n/s Kit, Repair, Water Vlv, Comp, 1.50	-	-	-	1	-
	8503191	⊗	n/s Kit, Repair, Water Vlv, Comp, 2.00	-	-	-	-	1
			(Kits include base, springs, core, diaphragm & body gasket)					
3	8503192	n/s	Kit, Diaphragm & Spring, .50/.75	1	1	-	-	-
	8503193	⊗	n/s Kit, Diaphragm & Spring, 1.00	-	-	1	-	-

## 220/240V Burkert Water Valves

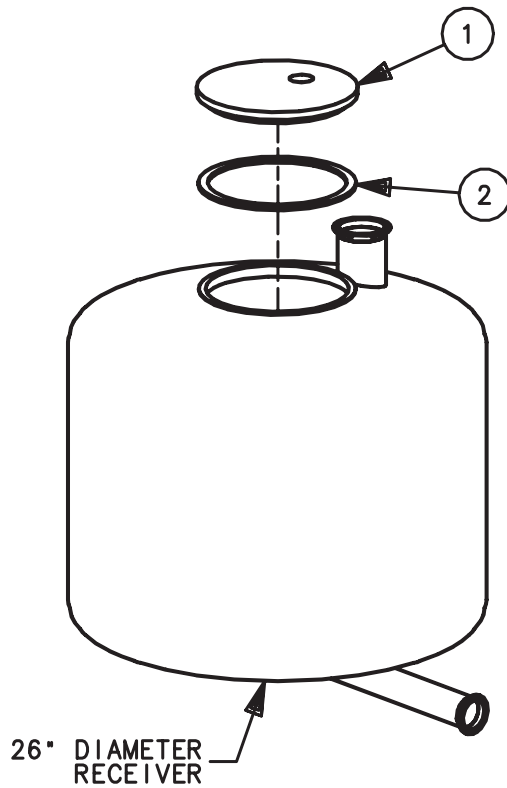


ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)				
	8515767	⊗	Valve, Water, .50, 220/240 VAC	767				
	8515768	⊗	Valve, Water, .75, 220/240 VAC	768				
	8515769	⊗	Valve, Water, 1.00, 220/240 VAC	769				
	8515770	⊗	Valve, Water, 1.50, 220/240 VAC	770				
	8515771	⊗	Valve, Water, 2.00, 220/240 VAC (Burkert Water Valves replaced with ASCO Water Valves)	771				
1	8515772	⊗	n/s Diaphragm Kit, Water Valve, .50	1	-	-	-	-
	8515773	n/s	Diaphragm Kit, Water Valve, .75	-	1	-	-	-
	8515774	⊗	n/s Diaphragm Kit, Water Valve, 1.00	-	-	1	-	-
	8515775	⊗	n/s Diaphragm Kit, Water Valve, 1.50	-	-	-	1	-
	8515776	⊗	n/s Diaphragm Kit, Water Valve, 2.00	-	-	-	-	1
2	8515777	⊗	Coil, Water Valve, 240 VAC	1	1	1	1	1
3	8501044	⊗	Connector, DIN, Water Valve	1	1	1	1	1

## Receiver Assembly - 30 Liter

### 30L Receiver Retrofit Kit for RP-25

### 3" Glass Y Replacement Kit



## 26" Diameter Receiver Jar (135, 170, 225 Liter)

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
<b>Receiver Jar, 26" Dia</b>				
	8518781		Lid, Acrylic, 10"	1
1	8504155	n/s	Lid, Acrylic, 10", Dual Hole	1
2	8518782		Gasket, Lid, 10"	1

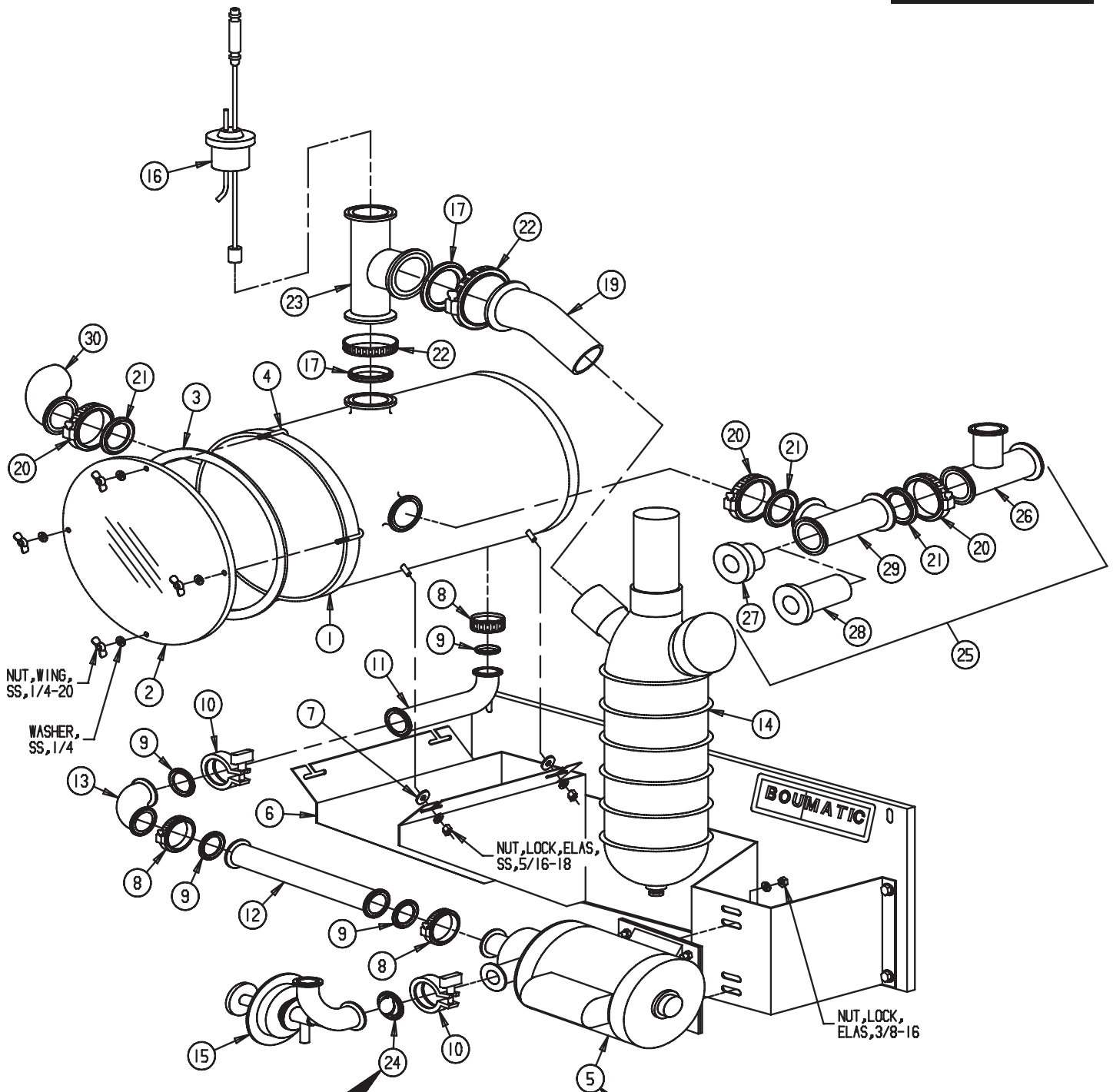
## Receiver Assembly - 30 Liter

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQ. (a/r=AS REQ.)	
	8501183	⊗	Rcvr Assy, 30L, L/CP	183	
	8501184		Rcvr Assy, 30L	184	
	8501185		Rcvr Assy, 30L, L/CP, MP, A1	185	
1	8501166		Receiver Assy, 30L (Includes items 2 thru 4)	1	1
2	8501171		Lid, Acrylic, 13.25	1	1
3	8501167		Gasket, Lid, 12.25, Rcvr, 30L	1	1
4	8514263		Bolt, Hook, Rt, .25 x 2.00 x .50 x .75	4	4
5	8513780	⊗	Pump, 5HP, 1PH, 230V, 60H (Parts on page C-29)	1	-
6	8501158		Support, Receiver	1	1
7	8501157		Washer, Plain, ABS, .328 x 1.00	4	4
8	8507932		Clamp, Band, SS, 1-1/2	3	3
9	8507905		Gasket, Tri-Clamp, 1.5 In	4	4
10	8507938		Clamp, Hinged, 1.5" Heavy Duty	2	2
11	8501170		Elbow Assy, Outlet, 1.50	1	1
12	8501173		Tube Assy, Outlet, Clp, 11.14	1	1
13	8507901		Elbow, 90 Deg, SS, Clp, 1.5"	1	1
14	8508251		Trap Assy, Sanitary, 3.00 In (Parts on page C-20)	1	1
15	8511967		Valve Assy, Drain (Parts on page C-32)	1	1
16	8513976		Probe Assy, 3"	1	1
	8502419		Probe Assy, 3" Plstc Tee (Parts both on page C-28)	1	1
17	8500331		Gasket, Tri-Clamp, 3 In	2	2
18					
19	8501176		Elbow, 30 Deg, SS, 3	3	3

20	8507933		Clamp, Band, SS, 2 In	3	3
21	8507951		Gasket, Tri-Clamp, 2 In	2	2
22	8507966		Clamp, Band, SS, 3 In	1	1
23	8508025	⊗	Tee, Plastic, 3.0, w/Inst Pkt	1	1
24	8515506		Valve, Flapper, Rbr, 1.5"	1	1
25	8517077		Tee Assy, 2.00 In, SS (Includes items 26 thru 29 & 1 each of items 20 & 21)	1	1
26	8508024	⊗	Tee, Plastic, 2.0, w/Inst Pkt (Indirect replacement 8507956)	1	1
27	8508537	⊗	Plug, Int, Rbr, Milk, 2.00, Sh	1	1
	8589422		Plug, Wash, Rbr, 2.00, Shrt, SS	1	1
28	8508538	⊗	Plug, Int, Rbr, Wash, 2.00, Lg	1	1
	8589421		Plug, Wash, Rbr, 2.00, Lg, SS	1	1
29	8507956		Tee, Tri-Clamp, SS, 2.0	1	1
30	8508021		Elbow, 90°, Plstc, 2.0, w/inst	1	1
31	8501187	⊗ n/s	Kit, Retrofit, 30L Receiver (Includes mtg hardware, clamps, gaskets & items 1,6,11,12,13,33 & 34)	-	-
32	8501188	⊗ n/s	Kit, Repl, 3" Glass Y (Includes clamps, gaskets & items 18,19,23,33,34)	-	-
33	8508120	n/s	Bushing, Coupling, 3 In	-	-
34	8504277		Sleeve, Rubber	1	1
35	9ES-741		Installation Instructions	a/r	a/r

# Receiver Assembly - 30 Liter

SECTION	PAGE
<b>C</b>	<b>19</b>
EFFECTIVE:	4/1/98



NUT, WING,  
SS, 1/4-20

WASHER,  
SS, 1/4

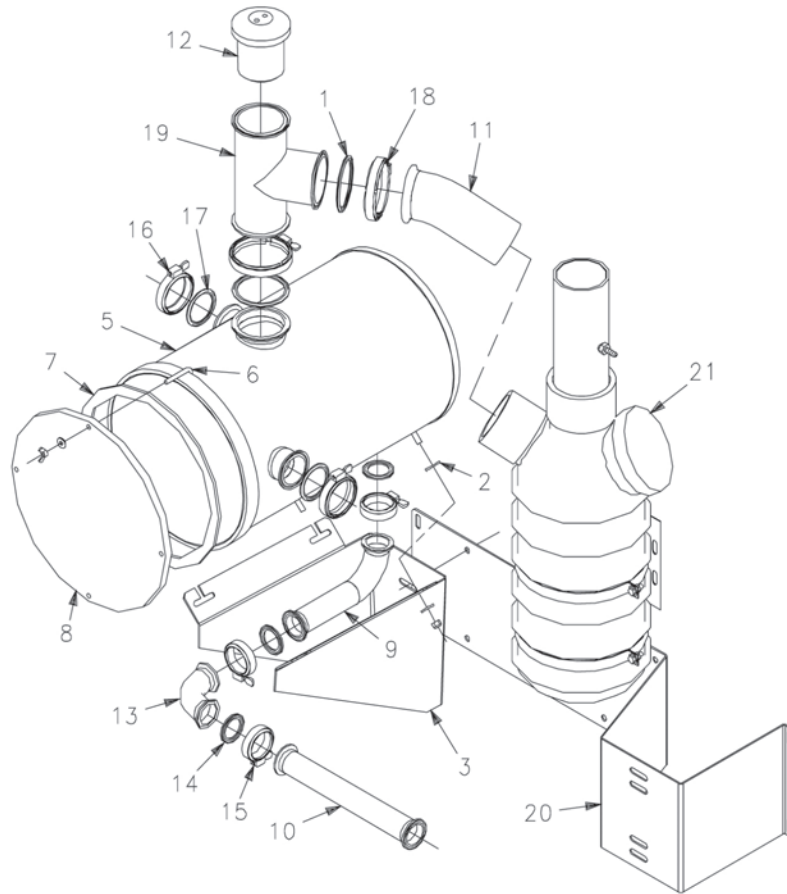
NUT, LOCK, ELAS,  
SS, 5/16-18

NUT, LOCK,  
ELAS, 3/8-16

**NOTE:** Install flapper  
valve with HINGE UP  
and flat side toward  
pump.

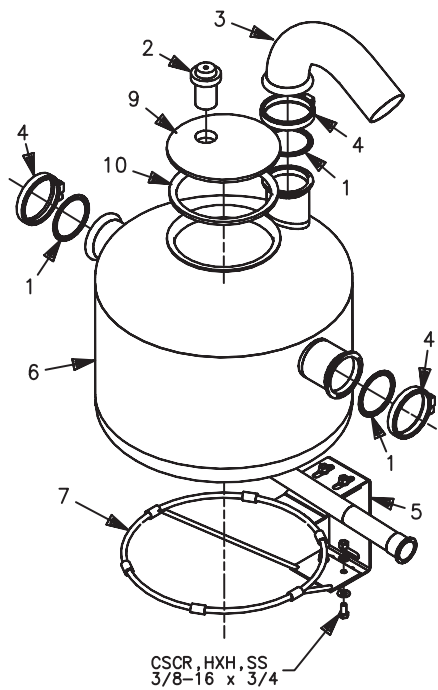
**IMPORTANT:** Remove screws from drain holes on  
BOTTOM of motor housing. FAILURE TO DO SO MAY  
CAUSE MOTOR TO FAIL DUE TO ACCUMULATION OF  
CONDENSATION INSIDE HOUSING. Then put the  
two screws removed into the two open drain  
holes on SIDE of housing.

## Model 77 Receiver Upgrade Kit



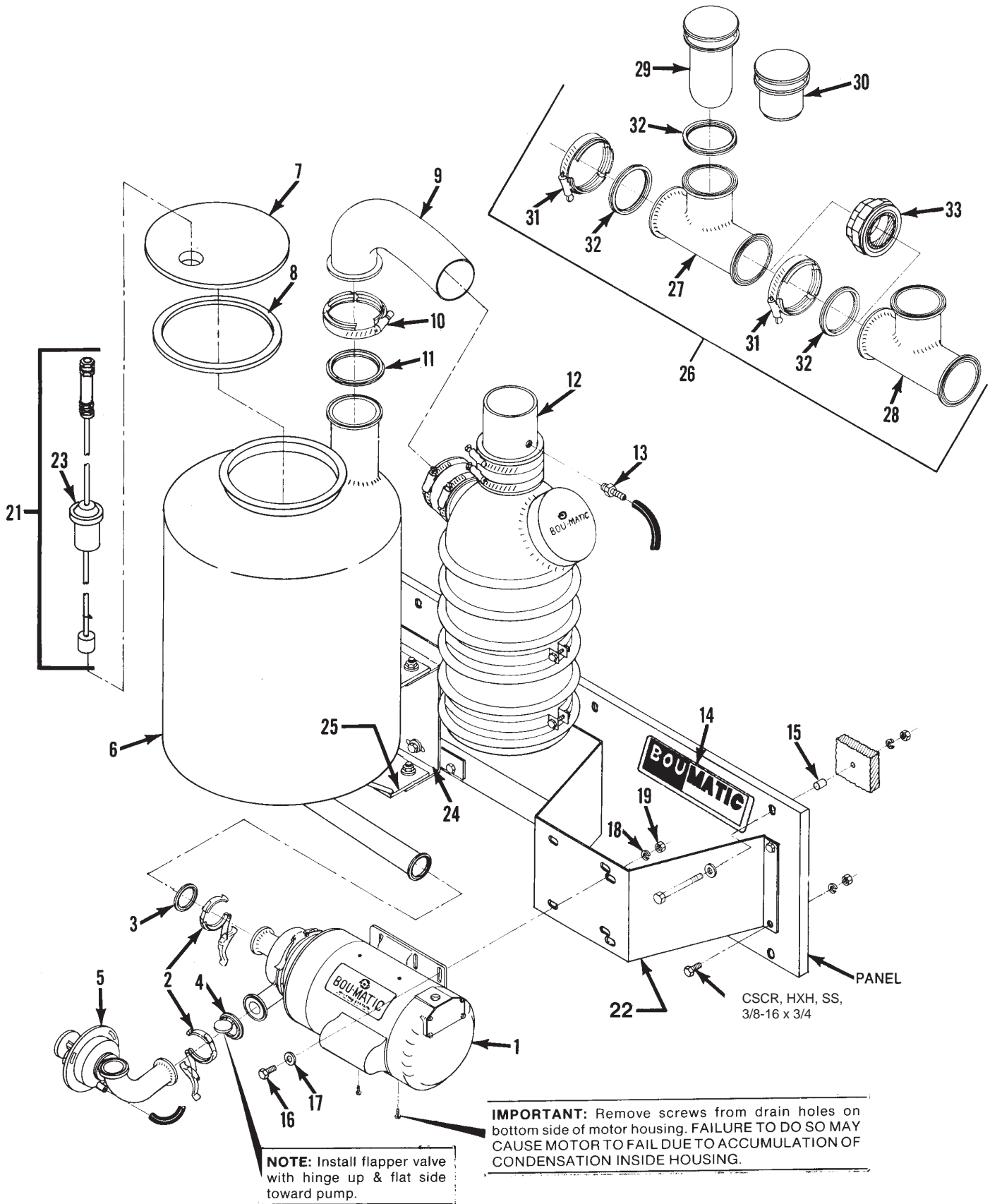
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
	<b>8508275</b>	⊗	<b>Kit, Receiver Upgrade, Mod 77</b>	
1	8500331		Gasket, Tri-Clamp, 3 In	2
2	8501157		Washer, Plain, ABS, .328 x 1	4
3	8501158		Support, Receiver	1
4				
5	8501166		Receiver Assy, 30L (Incl items 6-8)	1
6	8514263		Bolt, Hook, Rt., .25 x 2.00 x .50 x .75	4
7	8501167		Gasket, Lid, 12.25, Rcvr, 30L	1
8	8501171		Lid Acrylic, 13.25	1
9	8501170		Elbow Assy, Outlet, 1.50	1
10	8501173		Tube Assy, Outlet, CLP, 11.14	1
11	8501176		Elbow, 30 deg., SS, 3	1
12	8502264	n/s	Holder, Probe, 3 In	1
	8501713		Holder, Probe, 3" Plstc Tee	1
13	8507901		Elbow, 90 deg., SS, CLP, 1.5	1
14	8507905		Gasket, Tri-Clamp, 1.5 In	3
15	8507932		Clamp, Band, SS, 1-1/2	3
16	8507933		Clamp, Band, SS, 2 In	2
17	8507951		Gasket, Tri-Clamp, 2 In	2
18	8507966		Clamp, Band, SS, 3 In	3
19	8508025	⊗	Tee, Plastic, 3.0, W/inst Pkt	1
20	8508274	⊗	Brace, Receiver Group	1
21	8508251		Trap Assy, Sanitary, 3.00 In (Parts on page C-38)	1

# Glass to SS Conversion Kit



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
<b>8517428      ⊗      Kit, Rcvr, CVRSN, Glass to SS</b>				
1	8500331		Gasket, Tri-Clamp, 3 In	3
2	8502256	⊗	Holder, Probe, 1-1/2 In (RBY 8589417)	1
	8589417		Holder, Probe, 1-1/2 In	1
3	8504276		Elbow, 120 deg., SS, 3	1
4	8507966		Clamp, Band, SS 3 In	3
5	8508265		Brace, Receiver Support	1
6	8517424	⊗	Receiver Assy, CVRSN	1
7	8517426	⊗	Support Assy, Rcvr, SS 60L	1
8	8517427	⊗    n/s	Bracket, Moisture trap, SS 60L	1
9	8517429		Lid, Plexiglass, Rcvr	1
10	8591043	⊗	Gasket, Lid, Receiver (RBY 8589423)	1
	8589423		Gasket, Lid, Receiver	1

# Receiver Assembly 60/85 Liter





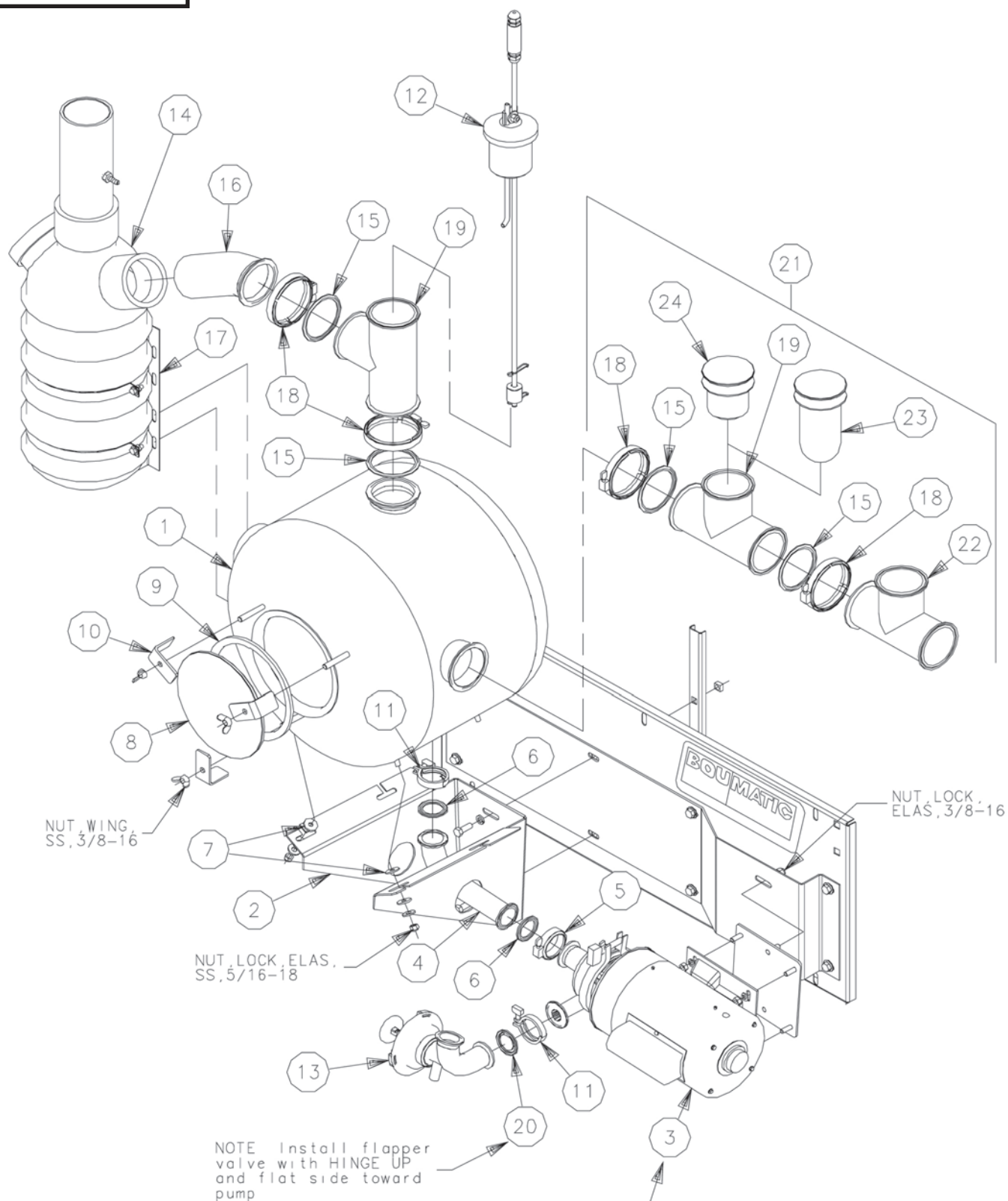
# Receiver Assembly 60/85 Liter

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
	<b>8517443</b>	⊗	<b>Rcvr Assy, SS, L/Jar &amp; Tees</b>	<b>7443</b>
1	8519970		Pump, 1Hp, 1Ph, 230V, 60Hz, CCW <i>(Parts on page C-30)</i>	1
2	8507938		Clamp, Hinged, SS, 1.5 In	2
3	8507905		Gasket, Tri-Clamp, 1.5 In	1
4	8515506		Valve, Flapper, Rbr, 1.5 In	1
5	8511967		Valve Assy, Drain <i>(Parts on page C-32)</i>	1
6	8517422	⊗	Receiver, SS, 60L, RH	1
	8517432	⊗	Receiver, SS, 85L, RH <i>(When ordering, use form 11P-27)</i>	1
7	8517429		Lid, Plexiglass, Rcvr	1
	8590473 <sup>1</sup>	n/s	Lid, Plexiglass, Rcvr, 2 Hole	1
8	8591043	⊗	Gasket, Lid, Receiver <i>(RBY 8589423)</i>	1
	8589423		Gasket, Lid, Receiver	1
9	8504276		Elbow, 120 Deg, SS, 3	1
10	8507966		Clamp, Band, SS, 3 In	1
11	8500331		Gasket, Tri-Clamp, 3 In	1
12	8508251		Trap Assy, Moisture, 3.00 In <i>(Parts on page C-38)</i>	1
13	8512906		Adapter, 1/4 Hose x 1/4 NPT	1
14	8506120		Label, Bou-Matic, 2.25 x 6	1
15	8517034		Tube, SS, .500 x .049 x .62	5
16	1091029		CSCR, HXH, SS, 5/16-18 x 1	5
17	1208387		Washer, Plain, SS, 5/16	5
18	1209387		Wshr, Lock, Hlcl Spr, SS, 5/16	5
19	1203353		Nut, Hex, SS, 5/16-18	5
20	1201027	n/s	Bolt, Crg, SS, 5/16-18 x 3/4	1
21	8513975 <sup>1</sup>		Probe Assy, 1.5" <i>(Parts on page C-20, includes item 28)</i>	1 or 2
22	8517438		Brace, Rcvr, 60L & 85L	1
23	8502256	⊗	Holder, Probe, 1-1/2 In <i>(RBY 8589417)</i>	1
	8589417		Holder, Probe, 1-1/2 In	1
24	8508265		Brace, Receiver Support	1
25	8508266		Support Assy, Rcvr, 25L, 13.75 ID	1
TEE ASSEMBLIES				2" 2.5" 3"
26	8517439	⊗	Tee Assy, 2.00 In	1 - -
	8517440	⊗	Tee Assy, 2.50 In	- 1 -
	8517441		Tee Assy, 3.00 In	- - 1
27	8507956		Tee, Tri-Clamp, SS, 2.0	1 - -
	8500323		Tee, Tri-Clamp, SS, 2.5	- 2 -
	8507997	⊗	Tee, Tri-Clamp, Plstc, 3.0	- - 2
28	8507991	⊗	Tee, Tri-Clamp, Plstc, 2.0	1 - -
29	8508538	⊗	Plug, Int, Rbr, Wash, 2.00, Lg, SS	1 - -
	8589421		Plug, Int, Rbr, Wash, 2.00, Lg, SS	1 - -
	8512926	⊗	Plug, Int, Plstc, Milk, 2.50, Lg	- 1 -
	8512923		Plug, Int, Plstc, Wash, 3.00, Lg	- - 1
30	8508537	⊗	Plug, Int, Rbr, Milk, 2.00, Shrt, SS	1 - -
	8589422		Plug, Int, Rbr, Milk, 2.00, Shrt, SS	1 - -
	8512925		Plug, Int, Plstc, Milk, 2.50, Shrt	- 1 -
	8512924		Plug, Int, Plstc, Wash, 3.00, Shrt	- - 1
31	8507933		Clamp, Band, SS, 2 In	2 - -
	8500433		Clamp, Band, SS, 2-1/2	- 2 -
	8507966		Clamp, Band, SS, 3 In	- - 1
32	8507951		Gasket, Tri-Clamp, 2 In	2 - -
	8500326		Gasket, Hycar, 2-1/2	- 4 -
	8500331		Gasket, Tri-Clamp, 3 In	- - 3
33	8508258	⊗ n/s	Coupling, Stnls-to-Stnls, 3 In	- - 1

Note:

<sup>1</sup> 2 Hole receiver lid and extra 1.5" probe assembly used with Opti-Flow controller assy

## 60L Horizontal Receiver Assemblies



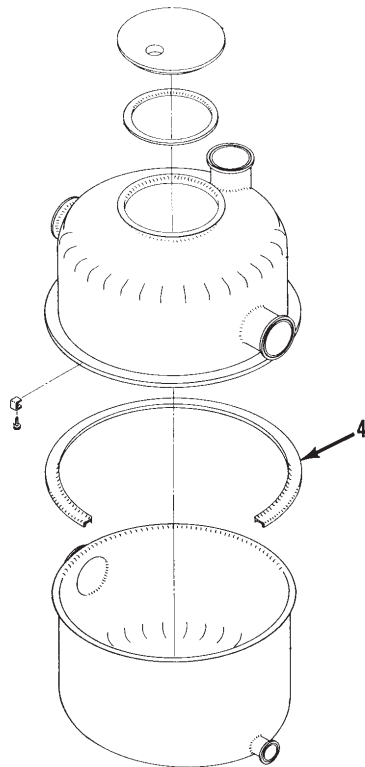
**IMPORTANT** Remove screws from drain holes on BOTTOM of motor housing. FAILURE TO DO SO MAY CAUSE MOTOR TO FAIL DUE TO ACCUMULATION OF CONDENSATION INSIDE HOUSING. Then put the two screws removed into the two open drain holes on SIDE of housing

## 60L Horizontal Receiver Assemblies

SECTION <b>C</b> EFFECTIVE:	PAGE <b>25</b> 6/14/18
-----------------------------------	------------------------------

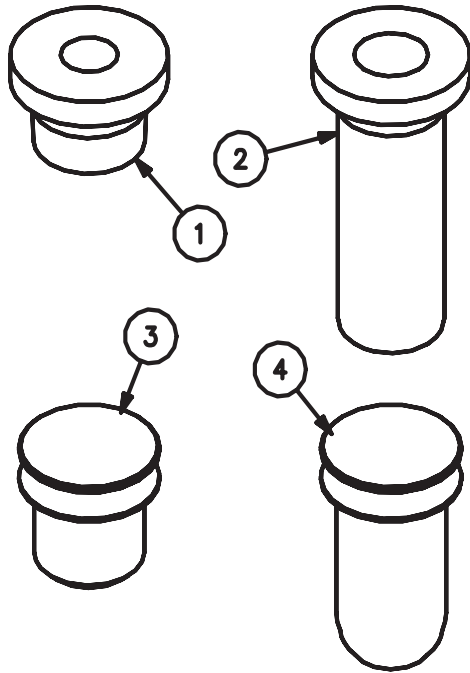
ITEM	PART NO.	⊗=OBSOLETE	DESCRIPTION	QTY REQUIRED	
		n/s=NOT SHOWN		(a/r=AS REQUIRED)	
	8501475	⊗	Rcvr Assy, 60H	475	-
	8501476	⊗	Rcvr Assy, 60H, L/CP	476	-
	8501477	⊗	Rcvr Assy, 60H, L/CP, AI	477	-
	8501478	⊗	Rcvr Assy, 60H, L/CP, MP, AI (RBY 8583238)	-	478
1	8501390	⊗	Receiver Jar Assy, 60H	1	1
2	8501392	⊗	Support , Receiver, RP-60H	1	1
3	8519970		Pump, 1 HP, 1PH, 230V, 60Hz, CCW (Parts on page C-30)	1	-
4	8501170		Elbow Assy, Outlet, 1.50	1	1
5	8507932		Clamp, Band, SS, 1-1/2	2	1
6	8507905		Gasket, Tri-Clamp, 1.5 IN	3	3
7	8501157		Washer, Plain, ABS, .328 x 1.00	8	8
8	8501393		Lid, Plexiglass, Rcvr, RP-60	1	1
9	8591043	⊗	Gasket, Lid, Receiver (RBY 8589423)	1	1
	8589423		Gasket, Lid, Receiver	1	1
10	8501398		Bracket, Lid	3	3
11	8507938		Clamp, Hinged, 1.5", Heavy D	2	2
12	8502419		Probe Assy, 3" (Parts on page C-28)	1	1
13	8511967		Valve Assy, Drain (Parts on page C-32)	1	1
14	8508251		Trap Assy, Sanitary, 3.00 IN (Parts on page C-38)	1	1
15	8500331		Gasket, Tri-Clamp, 3 IN	7	7
16	8501176		Elbow, 30 Deg, SS, 3	1	1
17	8501394	⊗	Bracket, Moisture trap, Long	1	1
18	8507966		Clamp, Band, SS, 3 IN	5	5
19	8508025	⊗	Tee, Plastic, 3.0, W/Inst Pkt	2	2
20	8515506		Valve, Flapper, Rbr, 1.5"	1	1
21	8517088	⊗	Tee Assy, 3.00 IN  (Includes 3 of item 15, 1 of items 18 & 19, & items 22-25)	1	1
22	8500324		Tee, SS, 3.0, CIP	1	1
23	8512923		Plug, Int, Plstc, Wash, 3.00, LG	1	1
24	8512924		Plug, Int, Plstc, Milk 3.00, Short	1	1
25	9E-742		Installation Instructions	a/r	a/r

## 75-Liter Receiver Jar Assembly



ITEM	PART NO.	⊗=OBSOLETE	DESCRIPTION	QTY REQUIRED
		n/s=NOT SHOWN		(a/r=AS REQUIRED)
-	8504297	⊗	Jar Assy, Receiver, SS, 75L	297
4	8504275		Gasket, Receiver, 18 in.	a/r

## Plugs for Milk/Wash Tees



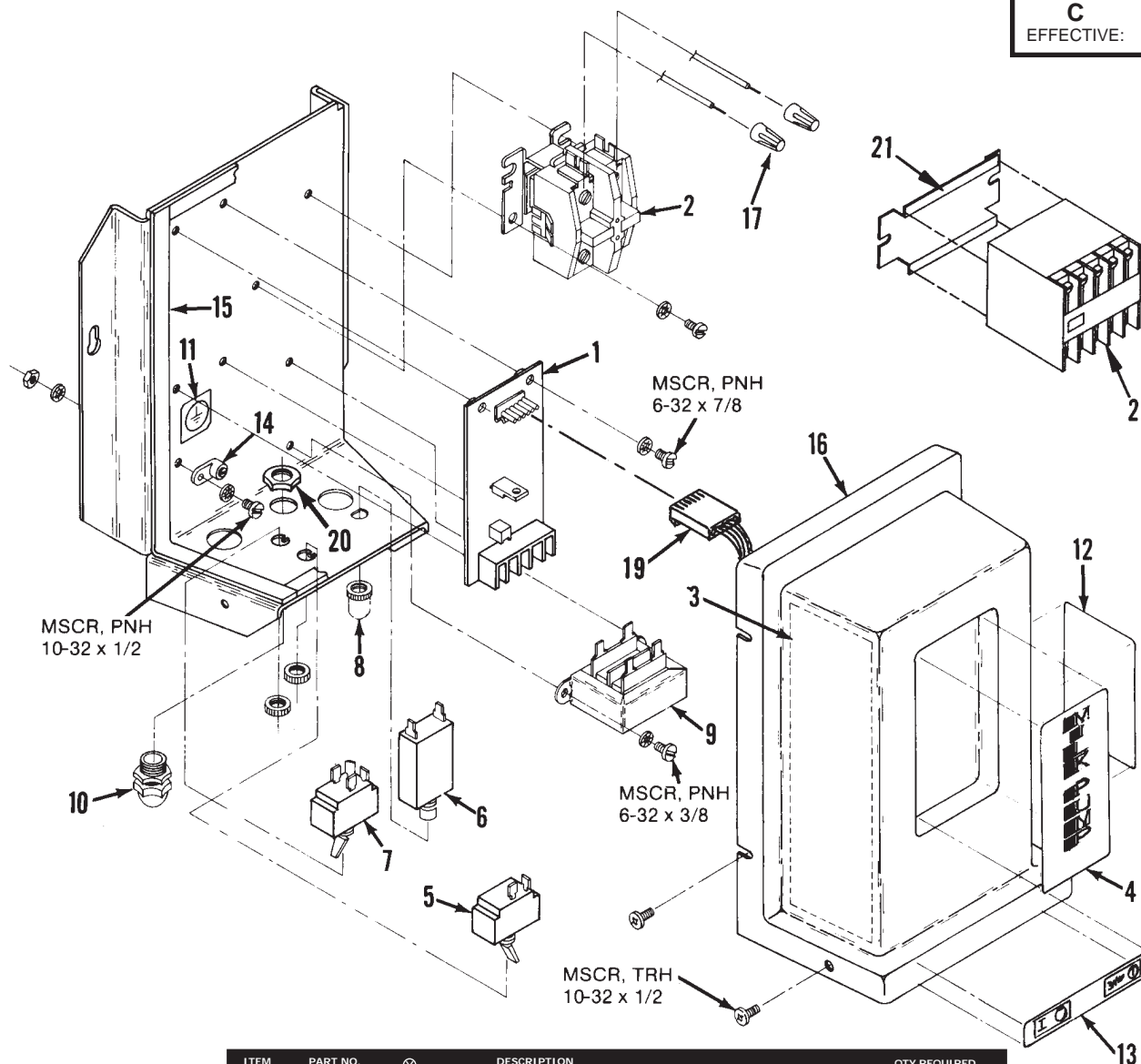
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION
-----			<b>Plugs, Milk / Wash</b>
1	8508505	⊗	Plugs, INT, RBR, Milk, 1.50, SHRT
	8508508	⊗	Plugs, INT, RBR, Milk, 2.00, SHRT, GL
	8508537	⊗	Plugs, INT, RBR, Milk, 2.00, SHRT, SS
	8589422		Plug, Wash, RBR, 2.00, SHRT, SS
2	8508504	⊗	Plugs, INT, RBR, Wash, 1.50, LG
	8508507		Plugs, INT, RBR, Wash, 2.00, LG, GL, w/Insert
	8508538	⊗	Plugs, INT, RBR, Wash, 2.00, LG, SS
	8508519	⊗	Plugs, INT, RBR, Wash, 2.00, LG, GL, wo/Insert
	8589421		Plug, Wash, RBR, 2.00, LG, SS
3	8512924		Plugs, INT, PLSTC, Milk, 3.00, SHRT
	8512925		Plugs, INT, PLSTC, Milk, 2.50, SHRT
	8518158		Plugs, INT, PLSTC, Milk, 4.00, SHRT
	8512923		Plugs, INT, PLSTC, Wash, 3.00, LG
4	8512926	⊗	Plugs, INT, PLSTC, Wash, 2.50, LG
	8518157		Plugs, INT, PLSTC, Wash, 4.00, LG

Note:

1. GL = For Glass Tee.

# Liquid Level Controller Assemblies

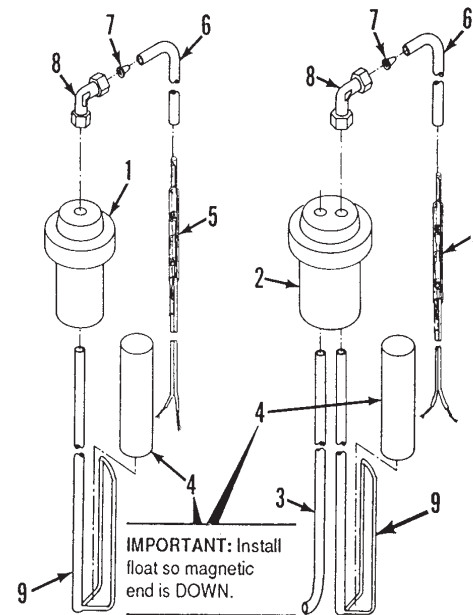
SECTION C  
EFFECTIVE: 2/15/03



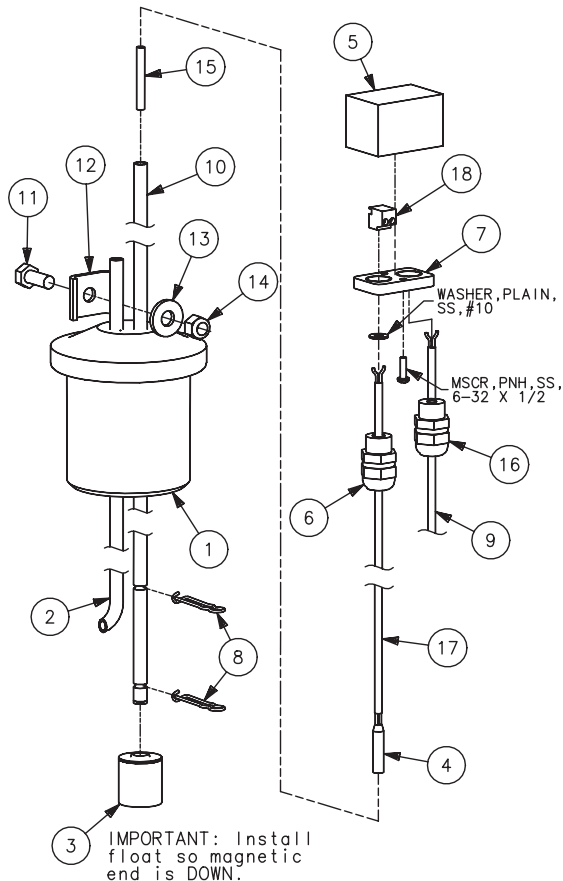
ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	8518536	⊗	Cont Assy, LLC, 230V, 50/60Hz	536	
	8518516		Cont Assy, LLC, 230V, 50/60Hz	516	
1	8513985		PWB Assy, Liq Level Timer	1	1
2	4015303		Contact, 20A, 2-Pole	1	-
	8518517		Contact, 3Ph, 1 Hp	-	1
3	8518533	⊗	Label, Wiring Diag, LLC	1	-
	8518543		Label, Wiring Diag, LLC, 3Ph	-	1
4	8518535		Label, Liquid Level Control	1	1
5	8516827		Switch, Pushbutton, SPST, Mom	1	1
6	8518540		Breaker, Ckt, 3A	1	-
	8516825		Breaker, Ckt, 5A, VDE	-	1
7	8516824		Switch, Toggle, DPST, On-Off, VDE	1	1
8	4015960		Seal, Switch, Ckt-Breaker	1	1
9	8514091		Xfmr, 230V, 26V, 50/60Hz	1	1
10	1917504		Conn, Str-Rlf, .23-.39, PG11	1	1
11	8505776		Label, Ground, International	1	1
12	8504733		Label, Warning, Electrical	1	1
13	8518512	⊗	Label, Switches	1	-
	8516823		Label, Switches, 5A, VDE	-	1
14	3551897		Lug, Ground, 14 to 8 AWG	1	1
15	8518520		Gasket Set	1	1
16	8518519		Enclosure, Air/Liquid Control (Does not include label items 3, 4, 12, 13 & nameplate)	1	1
17	3553423	⊗	Conn, Wire, 18-14 AWG, Pkg100 (PN represents no. of parts, not packages; 1 each req. per connection)	2	2
18	- - - -		Literature 9P-452	ref	-
	- - - -		Literature 9E-453 (Installation Instructions)	-	ref
19	8518527		Wire Harness, LLC (Includes connector, terminals & wires)	1	1
20	1917562		Connector, Dome, Nut, PG11	1	1
21	8516847		Rail, 35mm, Din	-	1

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	<b>8502243</b>	⊗	<b>Probe Assy, 1.5 In</b>	<b>243</b>		
	<b>8502263</b>	⊗	<b>Probe Assy, 2 In (shown)</b>	<b>263</b>		
	<b>8502267</b>	⊗	<b>Probe Assy, 3 In</b>	<b>267</b>		
1	8502256	⊗	Holder, Probe, 1-1/2 In	1	-	-
	8502261	⊗	Holder, Probe, 2 In (shown)	-	1	-
2	8502264		Holder, Probe, 3 In	-	-	1
3	8502262		Tube, Frmd, SS, .312 x 12.00	-	1	1
4	8502250	⊗	Float Assy, LLC	1	1	1
5	8502244		Switch Assy, Reed, LLC (Includes wiring harness)	1	1	1
6	8506707	⊗	Hose, Poly, Nat, .19 ID x .062W	a/r	a/r	a/r
7	8506708	⊗	Insert, Nylon, 5/16 Tube	1	1	1
8	8506706	⊗	Elbow, Nylon, 5/16 x 90 Deg	1	1	1
9	8502266	⊗	Tube Assy, Probe	-	-	1
	8502247	⊗	Rod Assy, Float	1	1	-

## 1.5-Inch Probe Assembly      2 & 3-Inch Probe Assemblies

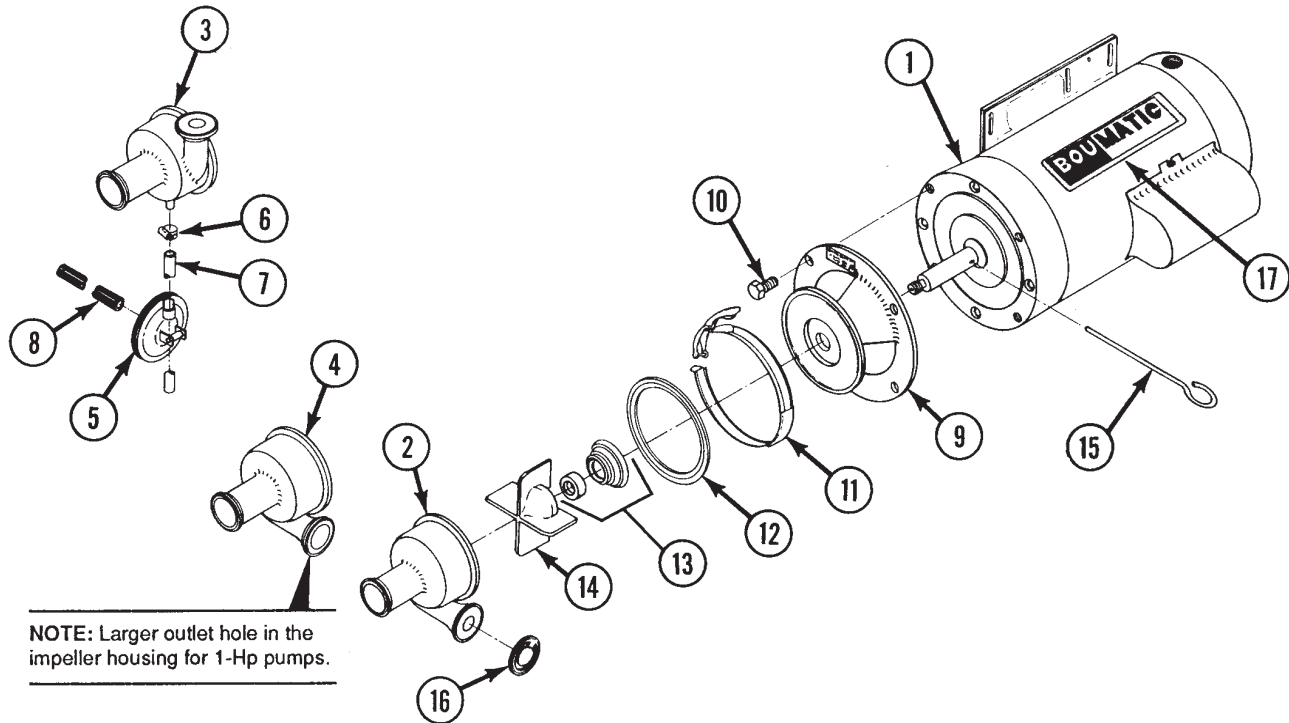


## 1.5, 2 & 3 Inch Probe Assemblies



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)				
	<b>8513975</b>		<b>Probe Assy, 1.5"</b>	<b>975</b>				
	<b>8513974</b>		<b>Probe Assy, 2"</b>	<b>974</b>				
	<b>8513976</b>		<b>Probe Assy, 3", Glass Tee</b>	<b>976</b>				
	<b>8501351</b>		<b>Probe Assy, 48" (1.5" Dia)</b>	<b>351</b>				
	<b>8502419</b>		<b>Probe Assy, 3", Plastic Tee</b>	<b>419</b>				
1	8502256	⊗	Holder, Probe, 1-1/2 In (Tube not included)	1	-	-	1	-
	8589471		Holder, Probe, 1-1/2 In	1	-	-	1	-
	8502261	⊗	Holder, Probe, 2 In	-	1	-	-	-
	8502264		Holder, Probe, 3 In	-	-	1	-	-
	8501713		Holder, Probe, 3 In Plstc Tee (Tubes not included)	-	-	-	-	1
	8589417		Holder, Probe, 1-1/2 in	1	-	-	1	-
	8589418		Holder, Probe, 2 in	-	1	-	-	-
2	8502262		Tube, Frmd, SS, .312 x 12.00	-	1	1	-	1
3	3552525		Float Assy, w/Magnets	1	1	1	1	1
4	8503858		Switch, Reed	1	1	1	-	1
	8501299		Switch, Reed, Modified	-	-	-	1	-
5	8508406		Box, Junction, Probe	1	1	1	1	1
6	1917502		Conn, Str-Rlf, .19 - .30 PG9	1	1	1	1	1
7	8508407		Cover, Junction Box, Probe	1	1	1	1	1
8	8500986		Retainer, Float	2	2	2	2	2
9	8513979		Cable, 2-Cond, 20AWG, 100' Coil	a/r	a/r	a/r	a/r	a/r
10	8508613		Tube Assy, Probe, 29.00"	1	1	1	-	1
	8508614		Tube Assy, Probe, 48.31"	-	-	-	1	-
11	1091027		CSCR, HXH, SS, 5/16-18 x 3/4	-	1	1	-	1
12	8506897		Retainer, Hanger, Claw	-	1	1	-	1
13	1208387		Washer, Plain, SS, 5/16	-	1	1	-	1
14	1222353		Nut, Lock, Elas, SS, 5/16-18	-	1	1	-	1
15	8513973		Rod, Plug	1	1	1	1	1
16	1917503		Conn, Str-Rlf, .12-.23, PG9	1	1	1	1	1
17	8503853		Sleeve, PVC, .133 x 27.06	1	1	1	-	1
	8503857	⊗	Sleeve, PVC, .133 x 17.25	-	-	-	1	-
18	1917630		Connector, Term Strip, 2-Pos	1	1	1	1	1
19	8514028	⊗	Kit, Retainer, Probe Assy (Includes one each of items 11-14)	-	1	1	-	1
20	8509529		Kit, Probe, Junction Box (Includes items 5-7 & 16-18)	1	1	1	1	1
21	----		Literature 9E-839 (Installation & Service Instructions)	ref	ref	ref	ref	ref

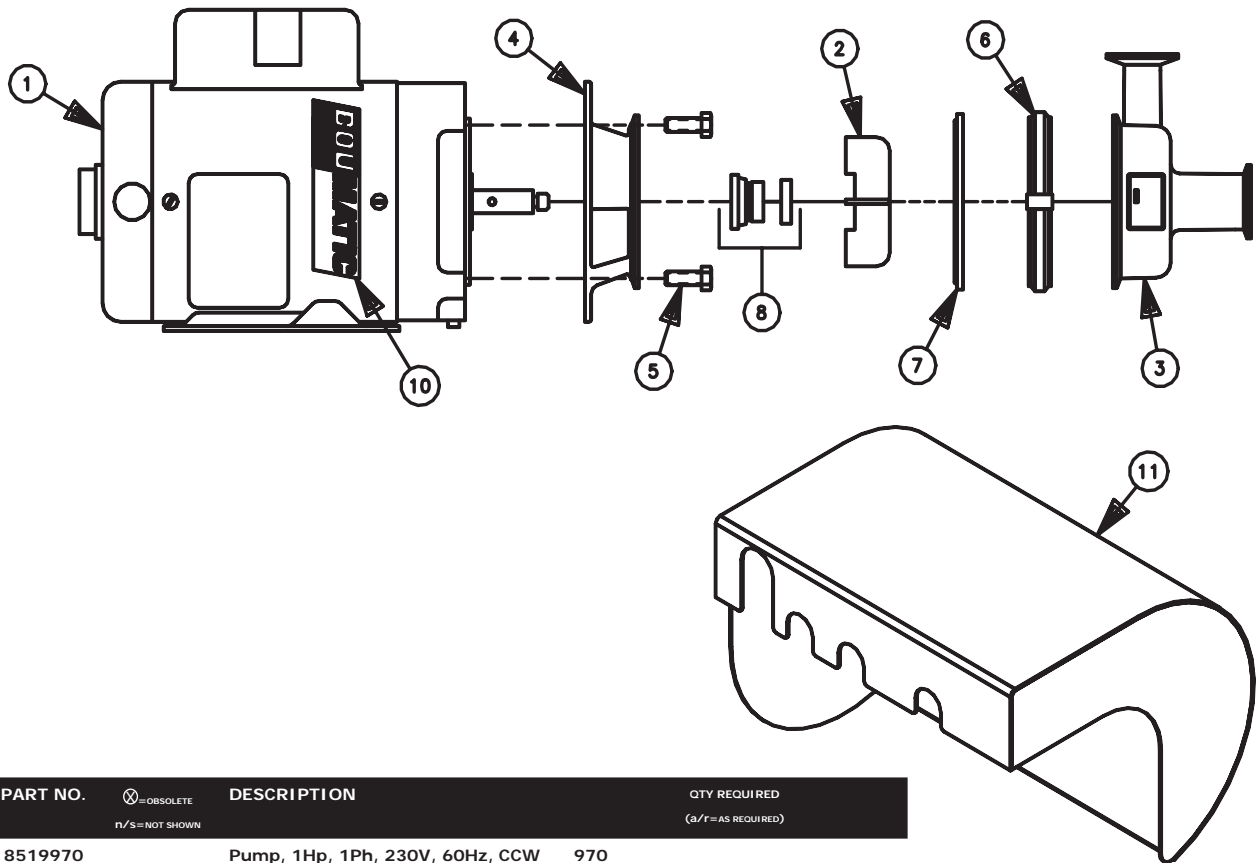
# Milk Pumps



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)				
	8513780	⊗	Pump, .5Hp, 1Ph, 230V, 60Hz	780				
	8513792	⊗	Pump, Milk, .5Hp, 3Ph, w/o Drain	792				
	8513793	⊗	Pump, Milk, .5Hp, 1Ph, w/Drain	793				
	8513790	⊗	Pump, 1 Hp, 1Ph, wo/Drain	790				
	8513791	⊗	Pump, 1 Hp, 3Ph, wo/Drain	791				
1	8513953	⊗	Motor, 1/2Hp, 1Ph, 208-230V (Includes item 18)	1	-	1	-	-
	8513785	⊗	Motor, 1/2Hp, 3Ph, 220V, 60Hz	-	1	-	-	-
	8513954		Motor, 1Hp, 1Ph, 208/230V	-	-	-	1	-
	8517090		Motor, 1Hp, 3Ph, 230/380V, 50/60Hz	-	-	-	-	1
2	8513771	⊗	Housing, Impeller, wo/Drain	1	1	-	-	-
3	8513741	⊗	Housing, Impeller, w/Drain	-	-	1	-	-
4	8513789	⊗	Housing, Impeller, wo/Drain	-	-	-	1	1
5	8511942	⊗	Actuator Assy, Drain-Valve	-	-	1	-	-
6	8510104		Clamp, Hose, SS, #7, .25-.62	-	-	1	-	-
7	8511964	⊗	Hose, Vinyl, .38 x .062W	-	-	a/r	-	-
	8591625		Hose, Vinyl, 0.38 X 0.0625W, 100 ft	-	-	a/r	-	-
8	8506805		Hose, Vinyl, .38 x .125W, Blk/Wht	-	-	a/r	-	-
9	8514338	⊗	Flange, Pump Mtg, Machined, .5Hp	1	1	1	1	1
10	1091044		CSCR, HXH, SS, 3/8-16 x 1/2	4	4	4	4	4
11	8500557		Clamp, Hinged, SS, 3.0 In, Adj	1	1	1	1	1
12	8513767		Gasket, Flanged, 3 In, Hycar	1	1	1	1	1
13	8513776		Seal Assy, Pump Shaft	1	1	1	1	1
14	8513775	⊗	Impeller Assy, 2.847	1	1	1	1	1
15	8513769		Tool, Dis-Assy, Impeller	1	1	1	1	1
16	8515506		Valve, Flapper, Rbr, 1.5 In	1	1	1	1	1
17	8506120		Label, Bou-Matic, 2.25 x 6	1	1	1	1	1
18	4022494	⊗ n/s	Capacitor, Run, 25 MFD, 370V	1	-	1	-	-



## 1-Hp Milk Pumps



ITEM	PART NO.	ⓧ=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)						
	8519970		Pump, 1Hp, 1Ph, 230V, 60Hz, CCW	970						
	8519971		Pump, 1Hp, 3Ph, 230V, 50/60Hz, CCW	971						
	8517089		Pump, Milk, 1Hp, 3Ph, 230/380V	089						
	8516253		Pump, 1Hp, 1Ph, 230V, 50Hz, CCW	253						
	8516254	ⓧ	Pump, 1Hp, 3Ph, 230V, 50Hz, CCW	254						
	8591730	ⓧ	Pump, Milk, 1HP Washdown	730						
1	8513954		Motor, 1Hp, 1Ph, 208/230V	1	-	-	1	-	-	
	8517090		Motor, 1Hp, 3Ph, 380V, 50Hz	-	1	1	-	1	-	
	8591729		Motor, 1Hp, 3Ph, 230/460V, SS	-	-	-	-	-	1	
2	8519949		Impeller Assy, 3.250	1	1	-	-	-	-	
	8517344		Impeller Assy, 3.500	-	-	1	1	1	1	
3	8519952		Housing, Impeller, Pol, CCW	1	1	1	1	1	1	
4	8514340		Flange, Pump Mtg, Machined, 1Hp	1	1	1	1	1	1	
5	1091044		CSCR, HXH, SS, 3/8-16 x 1/2	4	4	4	4	4	4	
6	8519972		Clamp, Hinged, SS, 4.0 In	1	1	1	1	1	1	
7	8519958		Gasket, Flanged, 4 In Hycar	1	1	1	1	1	1	
8	8513776		Seal Assy, Pump Shaft	1	1	1	-	-	1	
	8588241		Seal Assy, Pump Shaft, 50 Hz	-	-	-	1	1	-	
9	8513769	n/s	Tool, Dis-Assy, Impeller	1	1	1	1	1	1	
10	8506120		Label, Bou-Matic, 2.25 x 6	1	1	1	1	1	1	
11	8505123 <sup>1</sup>		Cover Assy, Milk Pump, 1Hp, RH	1	1	1	1	1	1	
12	-----		Literature 9ES-690 (Installation & Operation Instructions)	ref	ref	ref	ref	ref	ref	

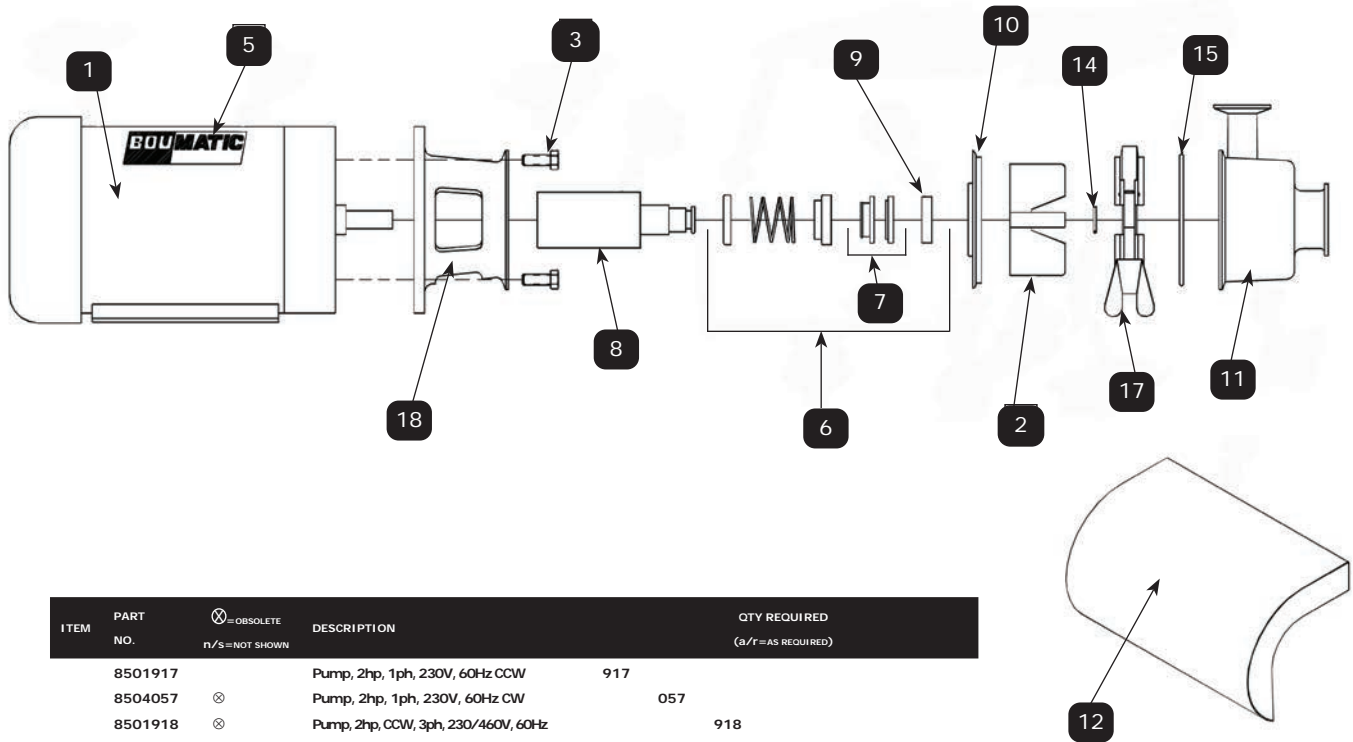
**Note:**

1. Not included with pump assemblies. For wall mount with pump to right of the receiver jar.

## 2-Hp & 3-Hp Milk Pumps

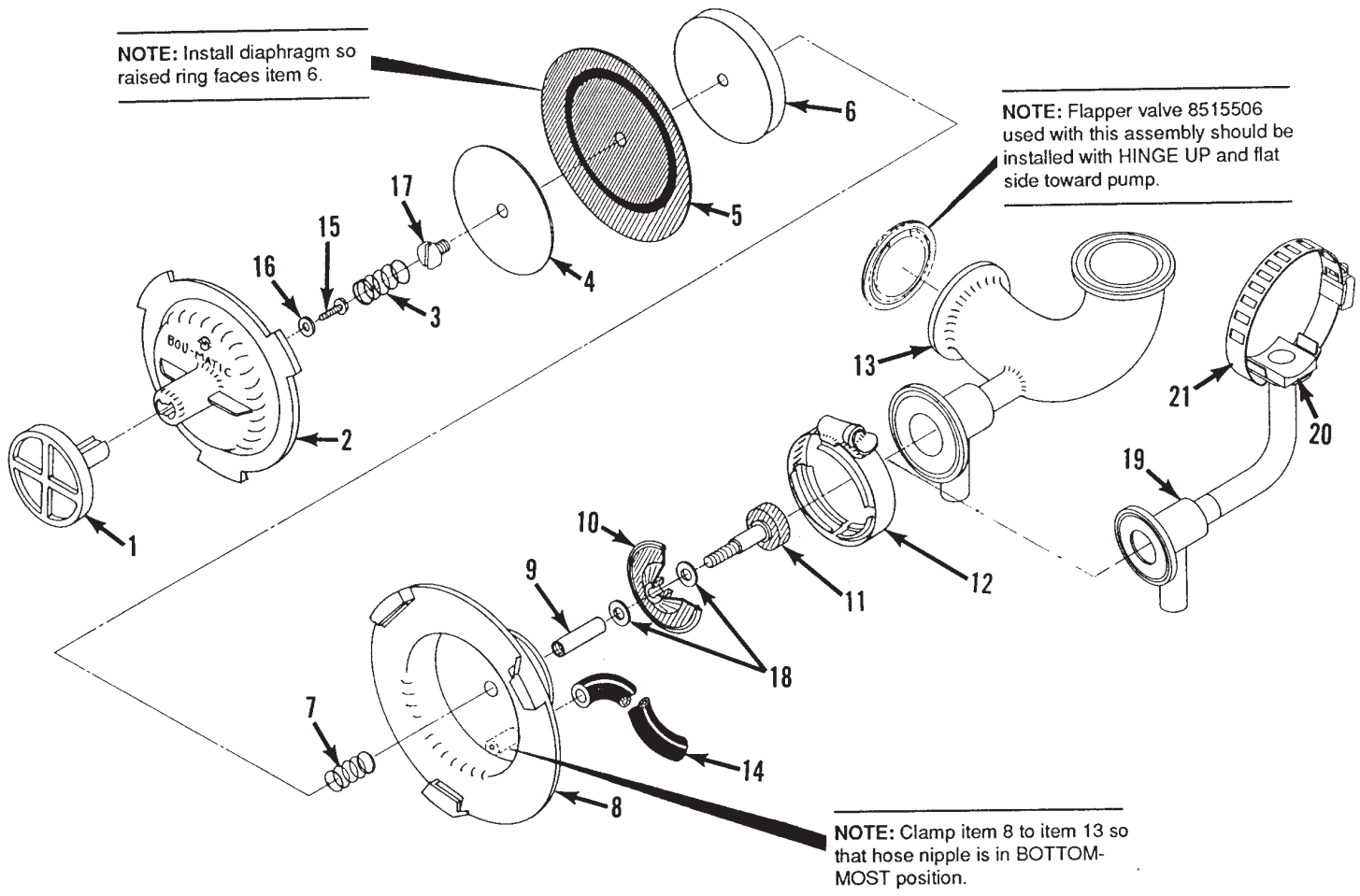
SECTION  
**C**  
EFFECTIVE:

PAGE  
**31**  
9/30/14



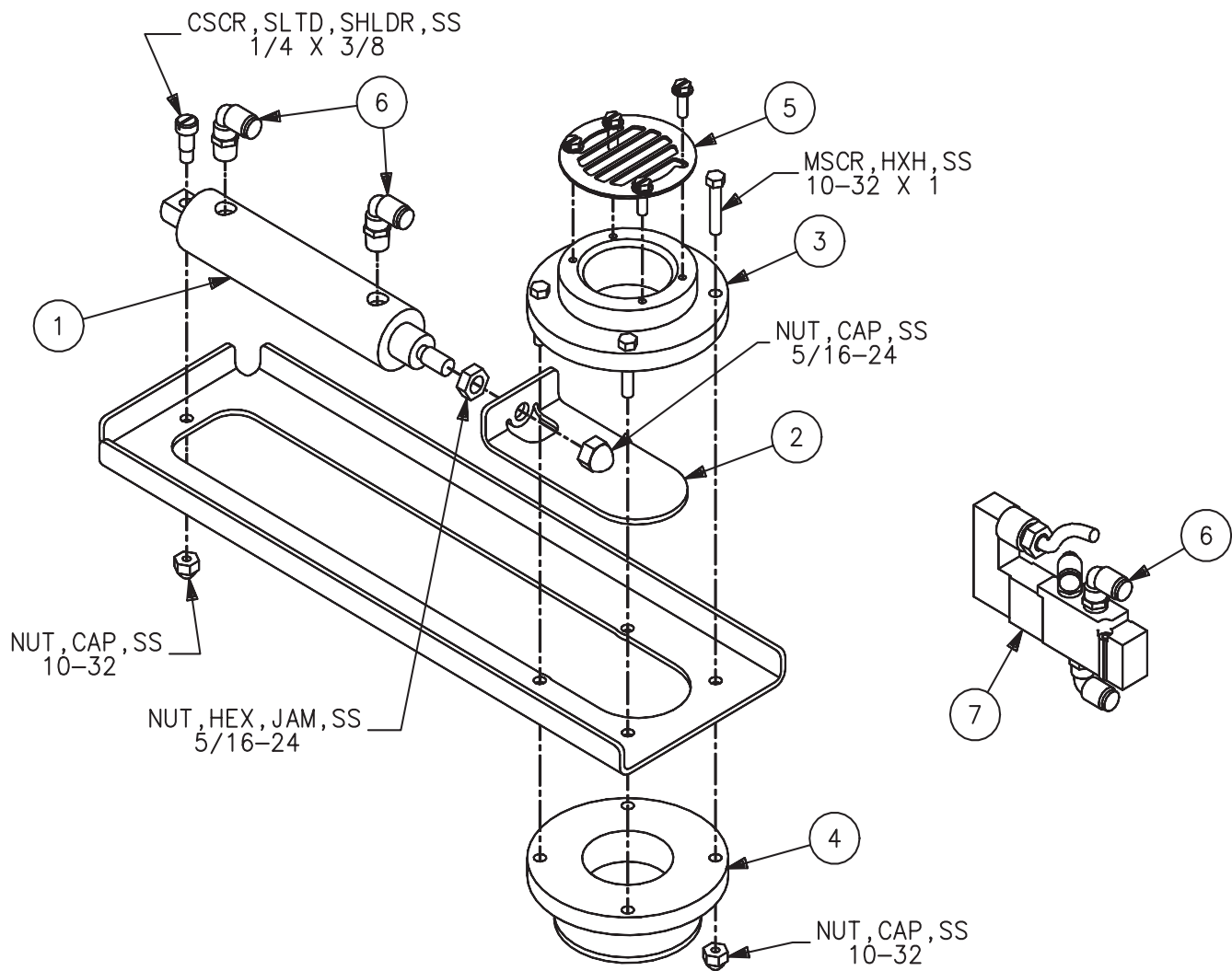
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)							
	8501917		Pump, 2hp, 1ph, 230V, 60Hz CCW	917							
	8504057	⊗	Pump, 2hp, 1ph, 230V, 60Hz CW		057						
	8501918	⊗	Pump, 2hp, CCW, 3ph, 230/460V, 60Hz			918					
	8502718	⊗	Pump, 2hp, 3ph, 230/460V, 60Hz, CW				718				
	8507467		Pump, 2hp, Washdown, 3ph, 60Hz, CCW					467			
	8507468		Pump, 2hp, Washdown, 3ph, 60Hz, CW						468		
	8509371		Pump, 3hp, 3ph, CCW, 230/460V, 60Hz							371	
1	8501924		Motor, Milk Pump, 2hp, 1ph, 60Hz	1	1	-	-	-	-	-	-
	8501925	⊗	Motor, Milk Pump, 2hp, 3ph, 60Hz	-	-	1	1	-	-	-	-
	8507531		Motor, 2hp, Washdown, 3ph, 60Hz	-	-	-	-	1	1	-	-
	8509531		Motor, Milk Pump, 3hp, 3ph, 60Hz	-	-	-	-	-	-	-	1
2	8501350		Impeller, Milk Pump, 3.875 in.	1	1	1	1	1	1	1	-
	13940567		Impeller, Milk Pump, 4-7/8 in.	-	-	-	-	-	-	-	1
	1359408		Impeller, Milk Pump, 4-1/8 in. (Std)	-	-	-	-	-	-	-	1
3	1091044		CSCR, HXH, SS, 3/8-16 x 1/2 Contactor, 3 PSI, 240V, 30A (Not included with pump assemblies)	4	4	4	4	4	4	4	4
4	4015902			a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r
5	8506279		Label, BouMatic, 1.5 x 4	1	1	1	1	1	1	1	1
6	8512561		Seal, Milk Pump, 2 or 3 hp	1	1	1	1	1	1	1	1
7	8501923	⊗	Kit, Repair, Carbon Seal, MP, 2hp	1	1	1	1	1	1	1	1
8	8502697		Shaft Assy, Pump, 2hp 7/8 in (Std)	1	1	1	1	1	1	1	1
	13953067		Drive Shaft, 5/8 in. Bore, Thomsen	1	1	1	1	1	1	1	1
9	8518791	⊗	Seal, Ceramic	1	1	1	1	1	1	1	1
10	8509322		Plate, Back, 2hp, Milk Pump	1	1	1	1	1	1	1	-
	13489234		Back Plate, #5 Thomsen	-	-	-	-	-	-	-	1
11	8509530		Housing, Milk Pump, 2hp, CCW	1	-	1	-	1	-	-	-
	8583282		Housing, Milk Pump, 2hp, CW	-	1	-	1	-	1	-	-
	1359395		Housing, #5 Pump, 2 in. x 2 in.	-	-	-	-	-	-	-	1
12	8507463		Cover Assy, MP, 2hp, CCW, Vert. (Not included with pump assemblies)	1	-	1	-	1	-	-	-
	8583282		Cover Assy, MP, 2hp, CW (Not included with pump assemblies)	-	1	-	1	-	-	-	-
13	-----	n/s	Literature 9ES-690 (Installation & Operation Instructions)	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
14	8512624		Clip, Impeller, Milk Pump	1	1	1	1	1	1	1	1
15	8512623		O-Ring, 3.984 x .139	1	1	1	1	1	1	1	-
	8512706		O-Ring, 4.987 x .139	-	-	-	-	-	-	-	1
16	8501919	⊗	n/s Kit, Seal, Milk Pump, 2hp (Includes Items 7, 9, 14 & 15)	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r
	8512625	n/s	Kit, Seal, Milk Pump, 2hp (Includes Seal & items 6, 14 & 15)	1	1	1	1	1	1	1	-
	8512705	n/s	Kit, Seal, Milk Pump, 3hp (Includes Seal & items 6, 14 & 15)	-	-	-	-	-	-	-	1
17	13931048		Clamp, Milk Pump, #4 Thomsen (2hp)	1	1	1	1	1	1	1	-
	13931148		Clamp, Milk Pump, #5 Thomsen (3hp)	-	-	-	-	-	-	-	1
18	13925504		Adapter, Milk Pump, #5 Thomsen	-	-	-	-	-	-	-	1

## Drain-Valve Assemblies



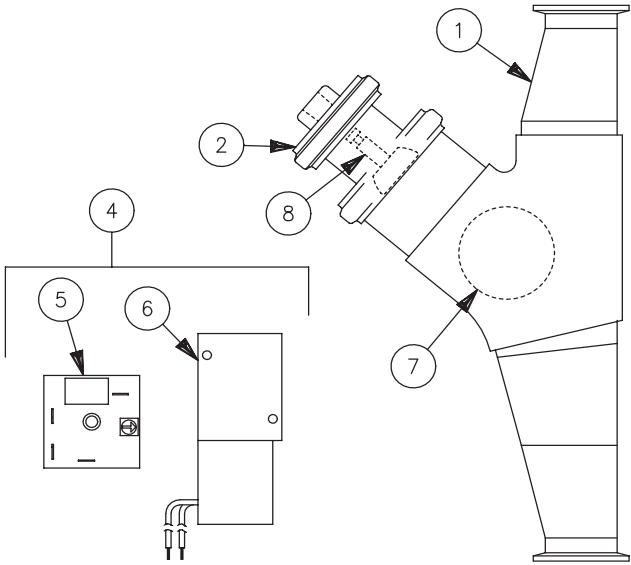
ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	8511967	Valve Assy, Drain	967		
	8511730	Valve Assy, Gooseneck Drain	730		
	8501189	Valve Assy Drain	189		
1	8511978	Handle, Drain Valve	1	1	1
2	8511973	Cover, Valve-Body	1	1	1
3	8511981	Spring, Compr. .480-.063, 1.000	1	1	1
4	8511969	Retainer, Diaphragm	1	1	1
5	8511970	Diaphragm, Drain Valve	1	1	1
6	8511968	Piston, Vac, Drain Valve	1	1	1
7	8511976	Spring, Compr. .420-.035, .875	1	1	1
8	8511972	Body, Drain-Valve	1	1	1
9	8511977	Rod, Piston	1	1	1
10	8511975	Diaphragm, Drain Valve	1	1	1
11	8511971	Seat, Drain Valve	1	1	1
12	8507932	Clamp, Band, SS, 1-1/2	1	1	-
13	8511985	Elbow Assy, Drain Valve	1	-	-
14	8506904	Hose, Vinyl, .25 x .125W, Blk/Wht	a/r	a/r	-
15	1024179	TCSCR, PNH, SS, 8-32 x 3/8 F	1	1	1
16	1208383	Washer, Plain, SS, #8	1	1	1
17	1096006	MSCR, PNH, SS, 1/4-20 x 1/2	1	1	1
18	1208471	Washer, Plain, SS, 1/4 NAR	2	2	2
19	8511733	Gooseneck Assy, Drain Set	-	1	-
20	8500804	Gasket, Milk Valve, 5/8	-	1	-
21	8510202	Clamp, SS, Valve Assy, 1.5 x 3	-	1	-
22	-----	literature, 9P- 412 (Installation Instructions)	a/r	a/r	a/r


Air-Operated Drain Assembly



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
8509980 Drain Assy, Wash, Air-Operated			
1	4024403	Cylinder, Drain Valve	1
2	8510267	Slide, Drain Valve	1
3	4024404	Body, Drain Valve.	1
4	8509981	Body, Ferruled, Drain	1
5	4024409	Guard, Drain Valve	1
6	3554451	Conn, Swl, Elb, 5/32 OD X 1/8 NPT	3
7	4023923	Valve, 4-Way, Air, 220 VAC	1

## Air Blow Valve Assemblies

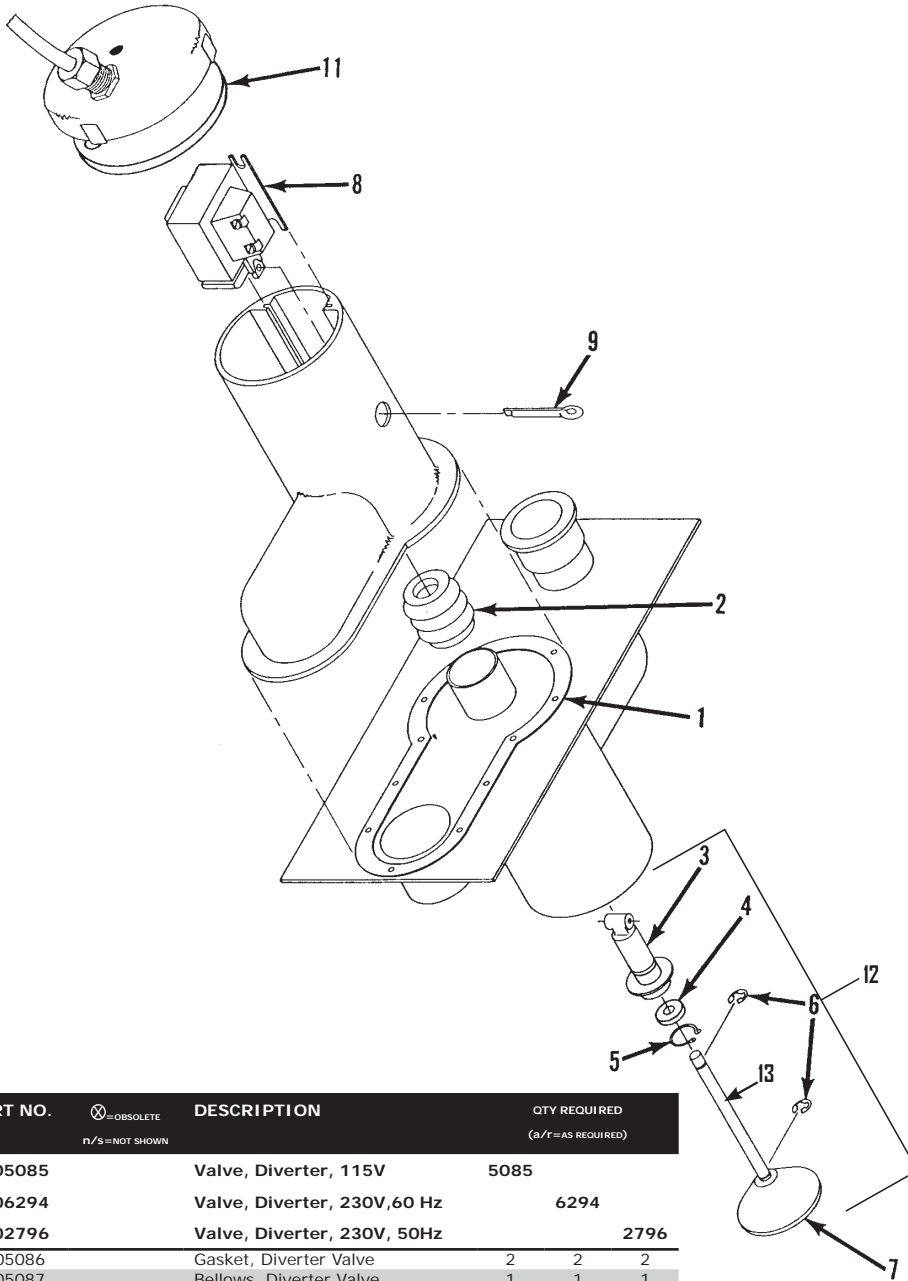


ITEM	PART NO.	 OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	<b>8516840</b>		<b>Valve Assy, Airblow, 1-1/2"</b>	<b>840</b>	
	<b>8516841</b>		<b>Valve Assy, Airblow, 2"</b>	<b>841</b>	
1	8516838		Valve, Check, 1.5 Y	1	-
	8516839		Valve, Check, 2.0 Y	-	1
2	8516837		Valve, Air Blow Check, 2-1/2	1	1
	8516112 <sup>1</sup>	n/s	Valve, Air Blow Check, 1-1/2	-	-
3	8516836 <sup>2</sup>	n/s	Filter, Air Blow	1	1
	8516113 <sup>2</sup>	n/s	Filter, Air Blow, Pk of 50	a/r	a/r
4	8516132		Kit, Air Blow Timer/Valve (Includes items 5 & 6)	-	-
5	8516131		Timer, 1-30 Sec	-	-
6	8516130		Valve, Solenoid, 230 VAC	-	-
7	8502429		Ball, Rubber, 2"	1	1
8	8504168		Plug & Stem Assy, Air Blow Vlv	1	1
9	- - -		Literature 9E-696 (Installation Instructions)	a/r	a/r

**Notes:**

- 1-1/2" air blow valve used only with 1-1/2" straight tee and is not included in air blow valve assemblies.
- Filters can be used with either size air blow valve.

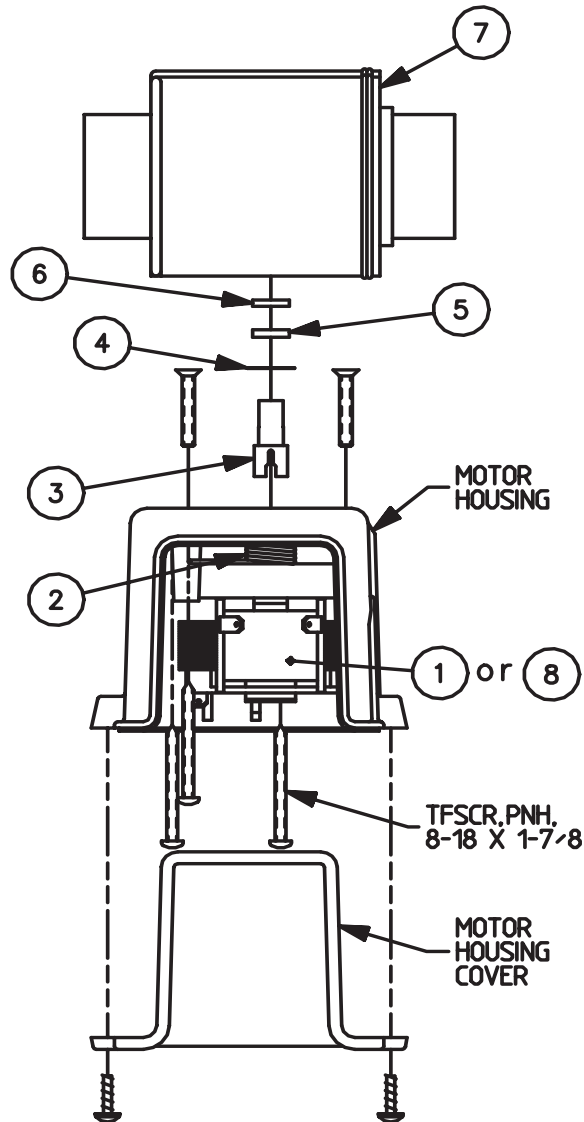
# Diverter Valve



Note: Shaft not included.

ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (S/R=AS REQUIRED)		
	8505085		Valve, Diverter, 115V	5085		
	8506294		Valve, Diverter, 230V, 60 Hz	6294		
	8502796		Valve, Diverter, 230V, 50Hz	2796		
1	8505086		Gasket, Diverter Valve	2	2	2
2	8505087		Bellows, Diverter Valve	1	1	1
3	8505088		Bushing, Diverter Valve	1	1	1
4	8505089		Wshr, Plstc, .33 x .61 x .12	1	1	1
5	8505090		Ring, Retaining, Intl	1	1	1
6	8505091		Ring, Retaining, Ext, E, .219	3	3	3
7	8505092		Plug, Stopper, Diverter Valve	1	1	1
8	8505093		Solenoid, Diverter Valve, 115V	1	-	-
	8506295		Solenoid, Diverter, 60 Hz, 230V	-	1	-
	8502797		Solenoid, Diverter, 50 Hz, 230V	-	-	1
9	1210415		Pin, Cotter, SS, 1/8 x 1-1/2	1	1	1
10	- - - -		Literature 9ES-421 (Installation & Service Instructions)	ref	ref	ref
11	8506789	⊗	Shield, Diverter Valve	1	1	1
12	122654	⊗	Stopper Rod Assembly	1	1	1
13	122655	⊗	Stopper Rod	1	1	1

## Electric Drain Valves

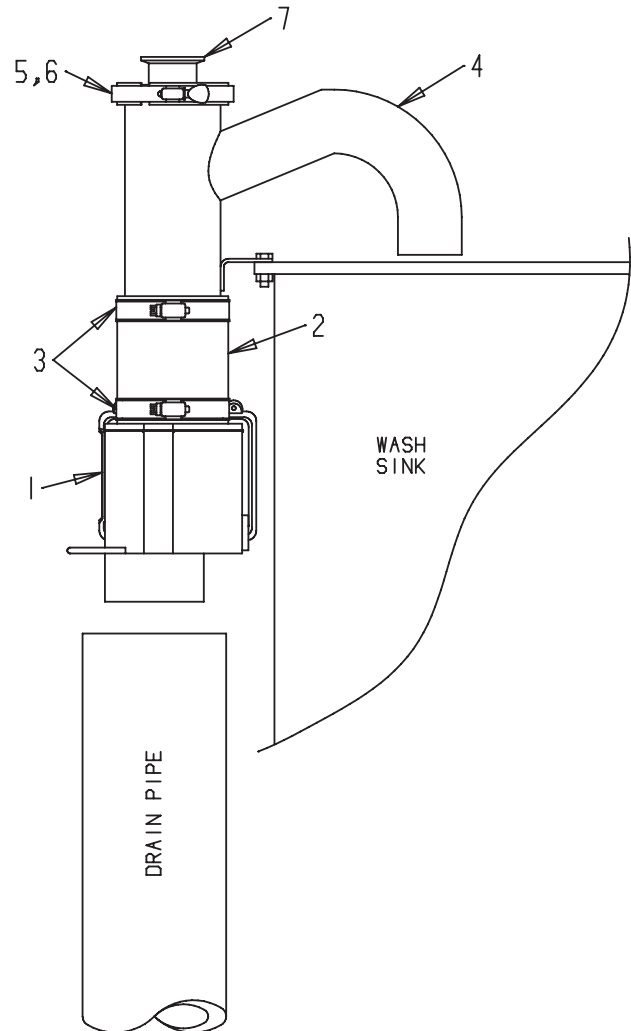


ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
	8518176		Valve, Drain, 2" Elec 220V	8176
	8518177		Valve, Drain, 3" Elec 220V	8177
1	8517698	⊗	Motor, 2" Valve, 220V, 50/60Hz	1 -
	8515797	⊗	Motor, 3" Valve, 220V, 50/60 Hz	- 1
2	8501254	⊗	Spring, Drain Valve, 2"	1 -
	8517699	⊗	Spring, Drain Valve, 3"	- 1
3	8516946	⊗	Pin, Drive	1 1
4	8516948	⊗	Wshr, SS, .385 x .708 x .010	1 1
5	8516949	⊗	Bearing, Shaft, Drain Valve	1 1
6	8516950	⊗	Seal, Ring, Drain Valve	1 1
7	8515795	⊗	Housing, Valve, 2" Elec Drain	1 -
	8515794	⊗	Housing, Valve, 3" Elec Drain	- 1
8	8502617	1	Coil/Stator Assy, 2"/3" Valve	1 1

Note

1. When replacing Coil/Stator, reassemble with same orientation or motor will try to run backwards. Ensure that shaft is free after tightening screws.

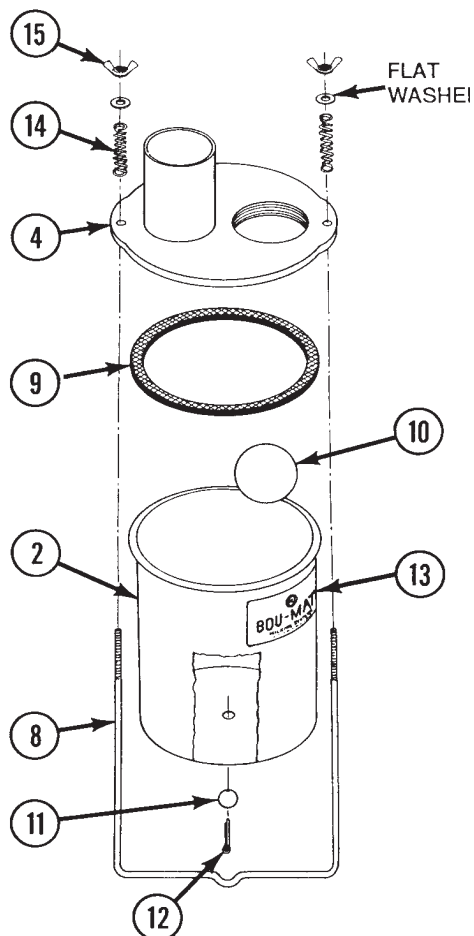
## S.S. Diverter Valve Assemblies



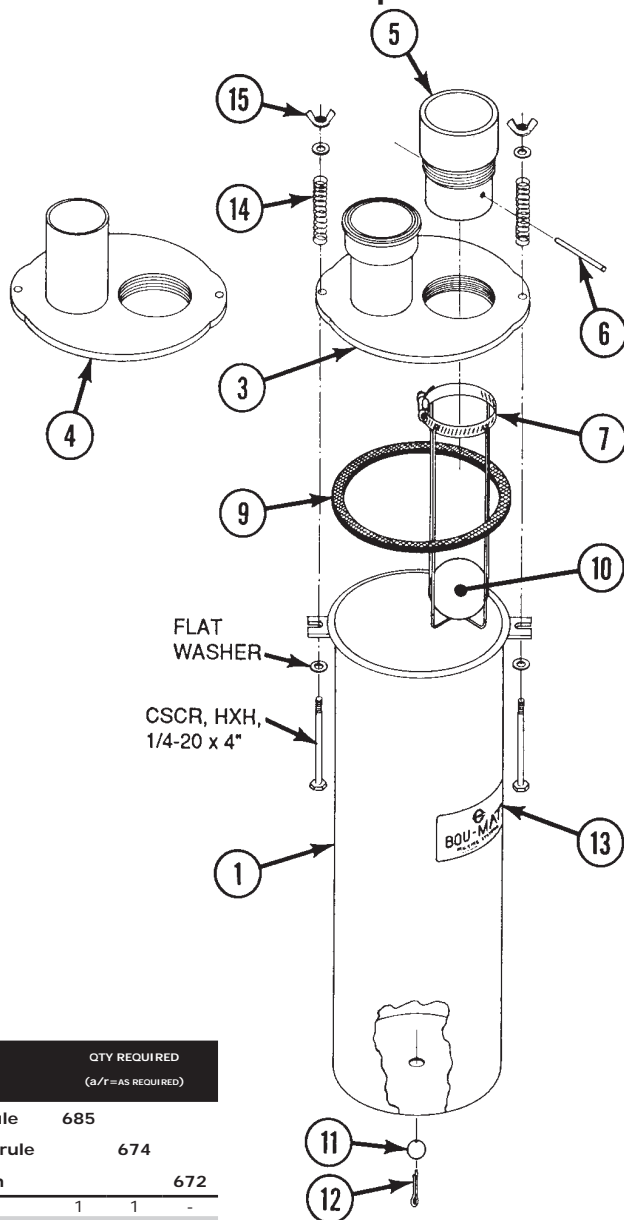
ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
	8518558		Valve Assy, Diverter, 1.50	558
	8518594		Kit, Diverter, Valve, 2	594
	8515633		Valve Assy, Diverter, L/Adapter	633
1	8518177		Valve, Drain, 3", Elec 220V	1 1 1
2	8518671		Coupling, Rubber, Diverter	1 1 1
3	8514035	⊗	Clamp, Hose, SS, #48, 2.56-3.50	2 2 2
4	8518277		Outlet Assy, Diverter	1 1 1
5	8507966		Clamp, Band, SS, 3 In	1 1 1
6	8500331		Gasket, Tri-Clamp, 3 In	1 1 1
7	8518187		Adapter, Ferrule, 1.50/3.00	1 - -
	8518186		Adapter, Ferrule, 2.00/3.00	- 1 -
8	- - -		Literature 9E-671 (Installation, Operation & Maintenance Instructions)	a/r a/r a/r



## 10-Inch SS Moisture Trap Assembly



## 20-Inch SS Moisture Trap Assemblies



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	8500685	⊗	Trap Assy, Moisture, w/Ferrule	685		
	8500674	⊗	Trap Assy, Moisture, w/o Ferrule	674		
	8500672	⊗	Trap Assy, Moisture, SS, 10 In	672		
1	8500675	⊗	Bucket, Moisture Trap, SS, 20 In	1	1	-
2	8500676	⊗	Bucket, Moisture Trap, SS, 10 In	-	-	1
3	8500681	⊗	Lid Assy, Trap, w/Ferrule	1	-	-
4	8500687	⊗	Lid Assy, Trap, w/o Ferrule	-	1	1
5	8501335 <sup>1</sup>	⊗	Support, Cage, Moisture Trap	1	1	-
6	8501333 <sup>1</sup>	⊗	Pin, 3 In, Moisture Trap	1	1	-
7	8501332 <sup>1</sup>	⊗	Cage, Moisture Trap, 3 In	1	1	-
8	8500696	⊗	Ball, Moisture Trap, SS	-	-	1
9	8500680		Gasket, SS Moisture Trap	1	1	1
10	8500679	⊗	Ball, Float, Plstc, 3.50 Dia	1	1	1
	8508347 <sup>3</sup>	⊗	Ball, Float, Plstc, 4.00 Dia	1	1	1
11	8516709 <sup>2</sup>		Ball, Check, Rbr, 1.00 Dia	1	1	1
12	1210415 <sup>2</sup>		Pin, Cotter, SS, 1/8 x 1-1/2	1	1	1
13	8506120		Label, Bou-Matic, 2.25 x 6	1	1	1
14	8500698	⊗	Spring, Compr, .480-.063, 2.50	2	2	2
15	1206352		Nut, Wing, SS, 1/4-20	2	2	2

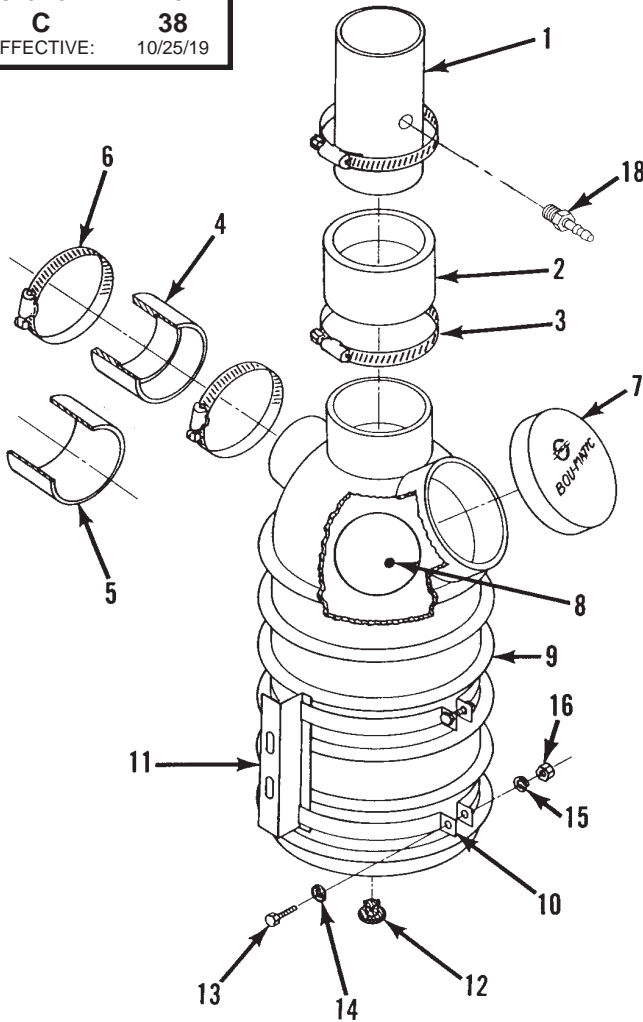
Note:

1. Not supplied on early 20-inch trap assemblies.

2. Not supplied on early 10-inch trap assemblies.

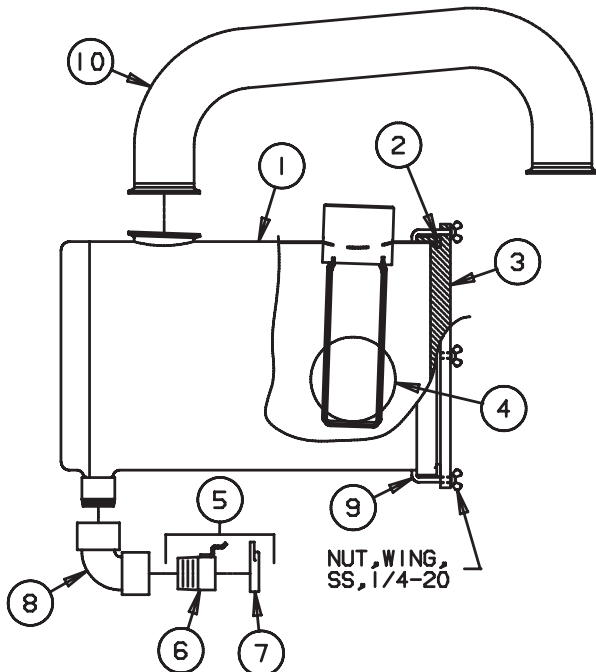
3. When replacing 3.50" dia. ball with 4.00" dia. ball the cage will need to be modified.

## 3-Inch Moisture Trap Assembly



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
<b>8508251 Trap Assy, Moisture, 3.00 In</b>			
1	8508242	Coupling, PVC, Sch-40, 3 x 9	1
2	8504278	Sleeve, Rubber, Vacuum	1
3	8500856	Clamp, Hose, SS, #64, 2.56-4.50	2
4	8504277	Sleeve, Rubber	1
5	8504290	Sleeve, 4.00 OD x .285 Wall (Fits 3-inch glass Y)	1
6	8510105	Clamp, Hose, SS, #56, 2.13-4.00	2
7	8508243	Cover, Moisture Trap	1
8	8508237	Ball, Float, Plstc, 4.25 Dia	1
9	8508233	Body, Moisture Trap	1
10	8508250	Strap, Moisture Trap	2
11	8508248	Bracket, Moisture Trap	1
12	3552570	Valve, Check	1
13	1091008	CSCR, HXH, SS, 1/4-20 x 3/4	2
14	1208386	Washer, Plain, SS, 1/4	2
15	1209386	Wshr, Lock, Hlcl Spr, SS, 1/4	2
16	1203352	Nut, Hex, SS, 1/4-20	2
17	- - -	Literature 9ES-349 (Installation Instructions)	ref
18	8512906	Adapter, 1/4 Hose x 1/4 NPT	1

## 3 & 4 in SS Moisture Trap Assemblies



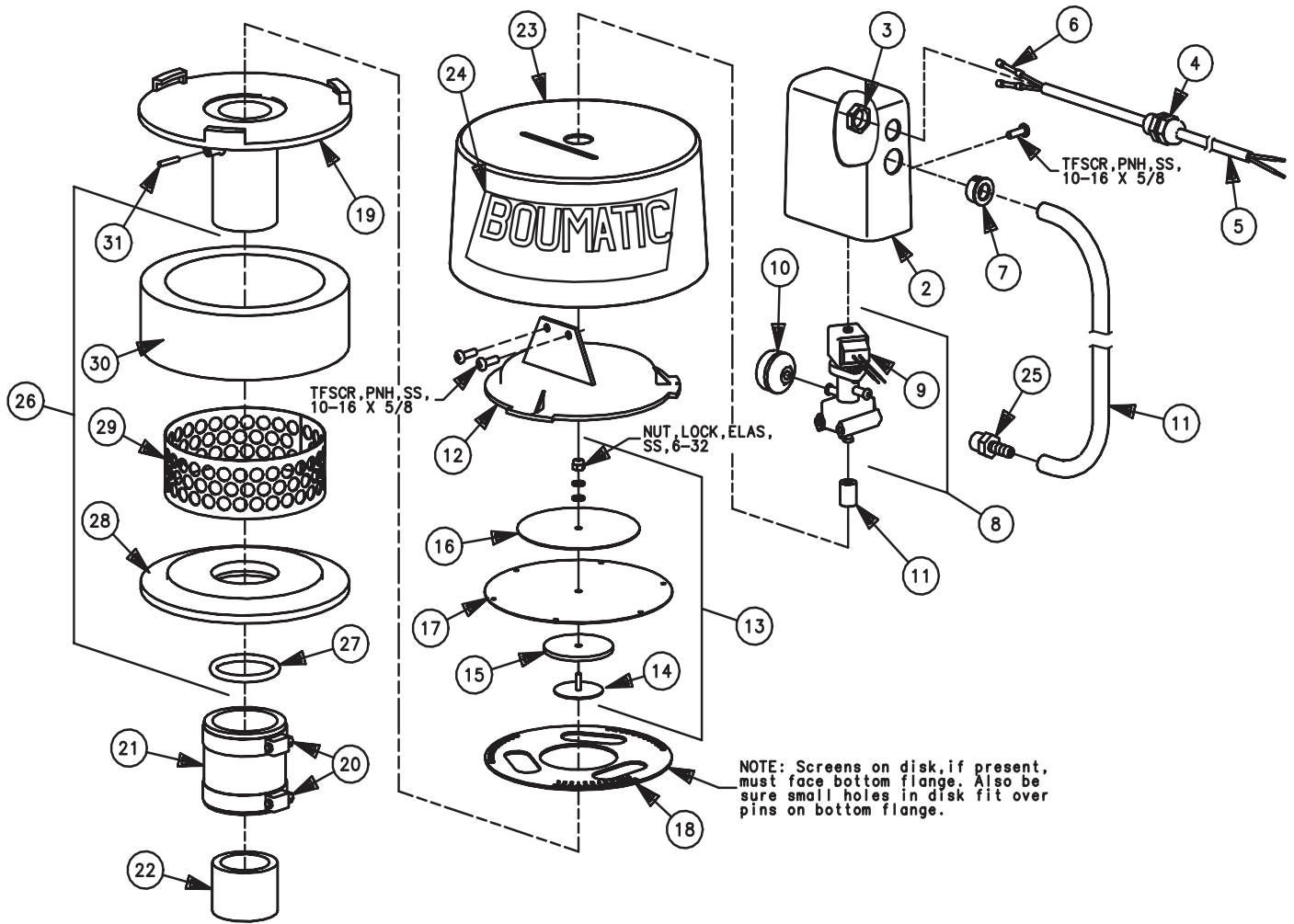
ITEM	PART NO.	ⓧ=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
<b>8518842 Trap Assy, Moisture, 3 In, SS</b>				<b>842</b>
<b>8518605 Trap Assy, Moisture, 4 In, SS</b>				<b>605</b>
<b>137114 Trap Assy, SS, 11.7 gal</b>				<b>114</b>
1	8518840	ⓧ	Body Assy, Moisture Trap, SS, 3.0	1 - -
	8553813		Body Assy, Moisture Trap, SS, 4.0	- 1 -
2	8501167		Gasket, Lid, 12.25, RCVR, 30L	1 1 -
	8594460		Gasket, Lid, Trap, 11.7 gal	- - 1
3	8501171		Lid, Acrylic	1 1 -
	1371133		Cover and Gasket Trap, 11.7 gal	- - 1
4	8508237		Ball, Float, Plastic, 4.25 Dia	1 - -
	8504113	2	Ball, Float, Plastic, 4.75 Dia	- 1 -
5	8505901		Valve Assy, Drain-Valve, 1-1/4 NPT (includes items 6 & 7)	1 1 -
6	8505902		Body Assy, Drain-Valve	1 1 -
7	8505903		Flapper, Drain-Valve, Rubber	1 1 -
8	3553300		Elbow, 90 Deg., ST, PVC, 1-1/4	1 1 -
9	8514263		Bolt, Special, 1/4-20	4 4 -
10	8518856	1	Elbow, Moisture Trap, 3.00	1 - -
	8518183	1	Elbow, Moisture Trap, 4.00	- 1 -

Note:

1. Not included with trap assemblies.
2. Older model 4" moisture trap assemblies used a 6" float ball. When replacing the 6" ball with the 4.75" ball the cage will need to be modified.

# Cyclone 610 Air Injector

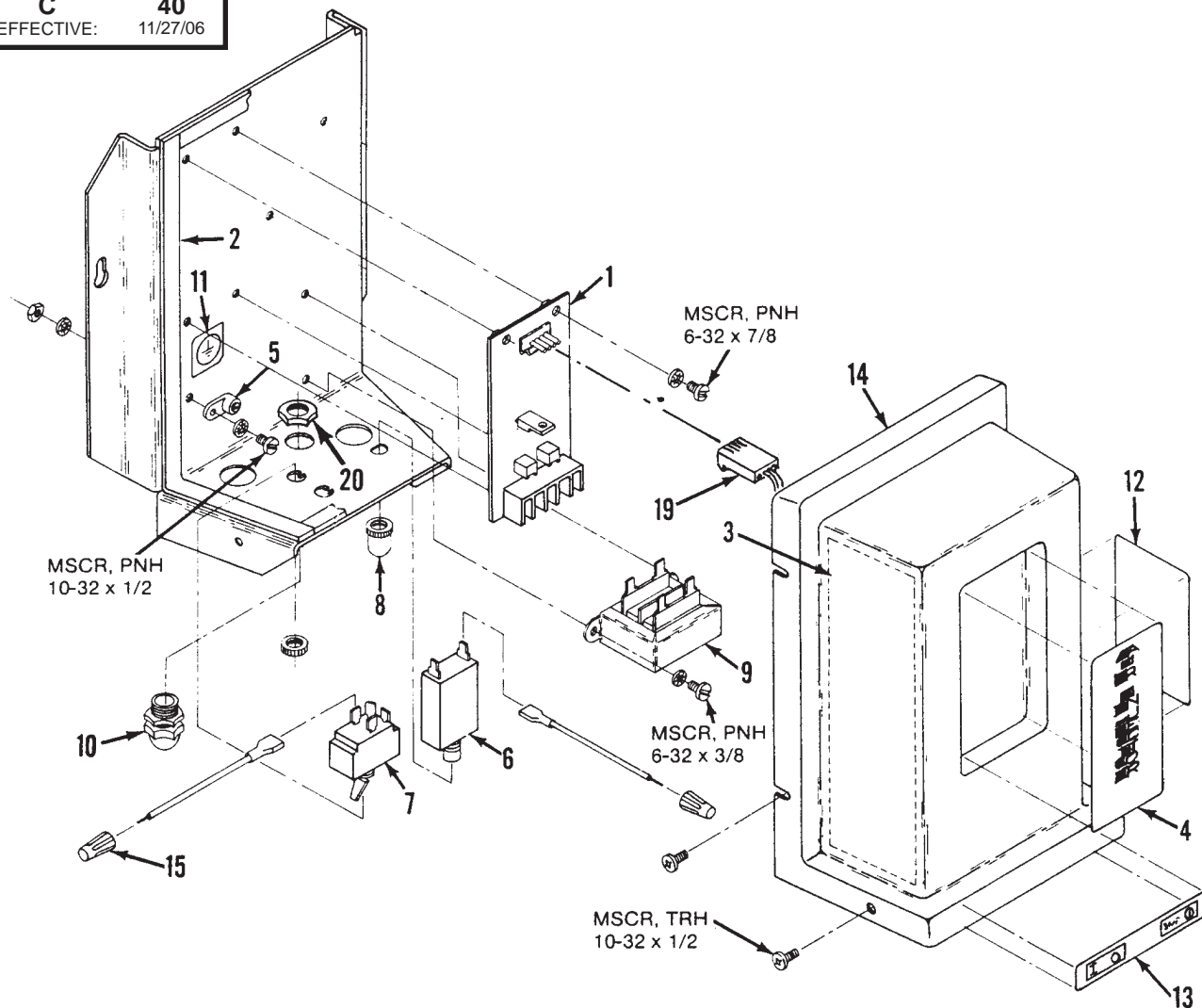
SECTION	PAGE
<b>C</b>	<b>39</b>
EFFECTIVE:	6/1/02



ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY. REQ. (A/R=AS REQ.)	
	8506236	⊗	Injector, Air, Cyclone 610	236	
	8503938		Air Inj Assy, Cyclone 610, Fil	938	
1	- - - -		Literature 9E-446 (Installation Instructions)	ref	ref
2	8506239		Cover, Air Injector	1	1
3	1917561		Connector, Dome, Nut, PG9	1	1
4	1917502		Conn, Str-Rlf, .19-.30, PG9	1	1
5	8506251	⊗	Cord, Power, Air Injector (Includes item 6)	1	1
6	4015408		Conn, Butt, 22-16 AWG	2	2
7	8506250		Bushing, Snap, Nylon, SB-750-8	1	1
8	8506216		Valve, 3-Way, Sol, 24V, 50/60Hz (Includes item 9)	1	1
9	8506309		Coil, Solenoid, 24V-6.5 Watt	1	1
10	8506249		Screen, Vent, Solenoid-Valve	1	1
11	8506904		Hose, Vinyl, .25 x .125W, Blk/Wht	a/r	a/r
12	8506212		Flange, Air Injector Top	1	1
13	8506241		Diaphragm Assy (Includes item 14 thru 17)	1	1
14	8516159		Retainer Assy, Air Inj, 1.50 Dia	1	1
15	8506230		Disk, Rubber, Air Injector	1	1

16	8506232	Disk, Back-Up	1	1
17	8506213	Diaphragm, Air Injector	1	1
18	8516118	⊗ Disc, Drilled, Air Injector	1	1
	8503873	Disc, Drilled, Air Inj	-	1
19	8504148	Body, Air Injector	1	1
20	8514033	Clamp, Hose, SS, #36, 1.80-2.75	2	2
21	4016502	Hose, Vinyl, 2.00 x 2.50	1	1
22	8506227	Hose, Vinyl, 2.00 x 1.50	1	-
23	8503904	Cover, Drip Proof, Air Inj	-	1
24	8506120	Label, Bou-Matic, 2.25 x 6	-	1
25	8512906	Adapter, 1/4 Hose x 1/4 NPT	-	1
26	8503024	Kit, Filter, Air Injector (Includes items 27 - 31 & item 18 [8503873])	-	1
27	8500520	O-ring, 1.850 x .210	-	1
28	8503027	Base, Filter, Air Inj	-	1
29	8503025	Support, Perf, Air Inj	-	1
30	8503026	Filter, Foam, Air Inj	-	1
31	8503028	Plug, Rubber, .139 x .75	-	1

# Air Injector Controller



ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
	8518532		Cont Assy, AI, 230V, 50/60Hz	-
1	8513986		PWB Assy, Air Inj Timer	1
2	8518520		Gasket Set	-
3	8518531		Label, Wiring Diag, Air Injector	1
4	8518534		Label, Air Injector	1
5	3551897		Lug, Ground, 14 to 8 AWG	-
6	8518540	⊗	Breaker, Ckt, 3A	1
	8516825	1	Breaker, Ckt, 5A, VDE	1
7	8516824		Switch, Toggle, DPST, On-Off, VDE	1
8	4015960		Seal, Switch, Ckt-Breaker	1
9	8514091		Xfmr, 230V, 26V, 50/60Hz	1
10	1917504		Conn, Str-Rlf, .23-.39, PG11	1
11	8505776		Label, Ground, International	1
12	8505774	⊗	Label, Caution, Eng/Fr/Gr	1
13	8518512	⊗	Label, Switches	1
	8516823		Label, Switches, 5A, VDE	1
14	8518519		Enclosure, Air/Liquid Control (Does not include label items 3, 4, 12, 13 & nameplate)	1
15	3553423	⊗	Conn, Wire, 18-14 AWG, Pkg100 (Part no. represents no. of parts, not packages; 1 each required per connection)	2
16	- - - - -		Literature 9P-446 (Installation Instructions)	ref
19	8518525		Wire Harness, Air Injector (Includes connector, terminals & wires)	1
20	1917562		Connector, Dome, Nut, PG11	1

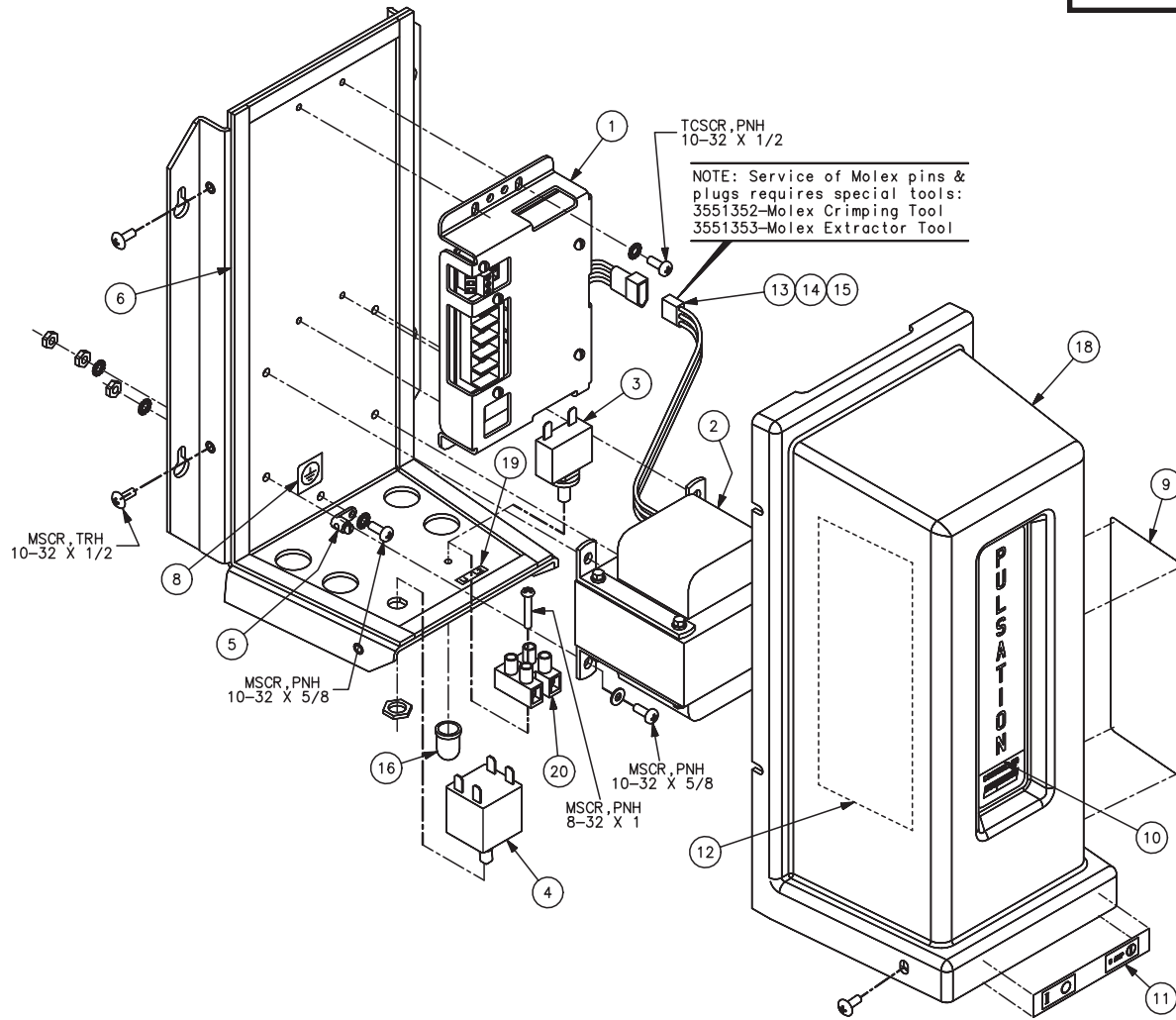
NOTE:

1. Use 5A circuit breaker as replacement for any 3A circuit breakers.

# Pulsation Controller Assembly

SECTION C  
EFFECTIVE: 2/15/03

PAGE 41  
2/15/03

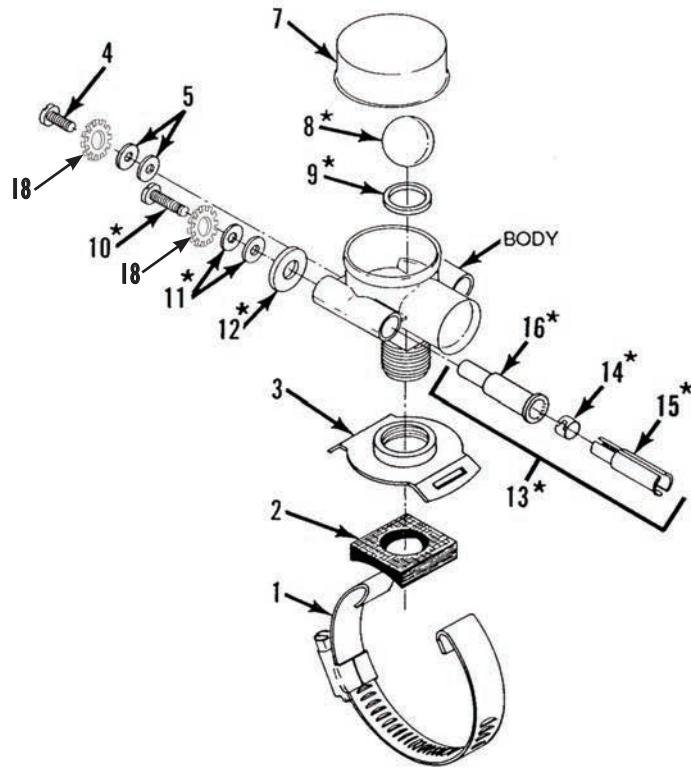


ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/f=AS REQUIRED)
	8518514	⊗	Controller Assy, Pulsation, PC-201	514
	8509979		Controller Assy, Pulsation, PC-210	979
1	8518588	⊗	Module Base Assy, 45/52/60PPM	1 -
	8509330		PWB & BKT Assy, Module, PRISM	1 -
2	8518577		Xfmr, 115/230V, 50/60Hz	1 1
3	8518540	⊗	Breaker, Ckt, 3A	1 -
	8516825	1	Breaker, Ckt, 5A, VDE	1 -
4	8516824		Switch, Toggle, DPST, On-Off, VDE	1 -
	8510840		Breaker, Ckt, Switch, 5A	- 1
5	3551897		Lug, Ground, 14 to 8 AWG	1 1
6	8518513		Gasket Set	1 1
7	3553423	⊗	Conn, Wire, 18-14 AWG, Pkg100 (Part no. represents no. of parts, not packages; 1 each required per connection)	2 -
8	8505776		Label, Ground, International	1 1
9	8504733		Label, Warning, Electrical	1 1
10	8518510		Label, Pulsation Controller	1 1
11	8518512	⊗	Label, Switches	1 -
	8516823		Label, Switches, 5A, VDE	1 1
12	8518515	⊗	Label, Pulsation, Wiring Diagram	1 -
	8510178	⊗	Label, Pulsation, Wiring Diagram	- 1
13	1916903		Connector, Recept, FH, 3-Pin	1 1
14	1916719	n/s	Conn, Pin, .093, F, 18-22, .06/.12	3 3
15	1916701	n/s	Conn, Pin, .093, M, 18-22, .06/.12	3 3
16	4015960		Seal, Switch, Ckt-Breaker	1 -
17	- - - -		Literature 9P-440	ref -
	- - - -		Literature 9P-471 (Installation Instructions)	- ref
18	8518509		Enclosure, Pulsation Control (Does not include labels items 8, 9, 10, 11 & nameplate)	1 1
19	8510256		Label, L1-L2	- 1
20	1917660		Connector, Term Strip, 2-pos	- 1

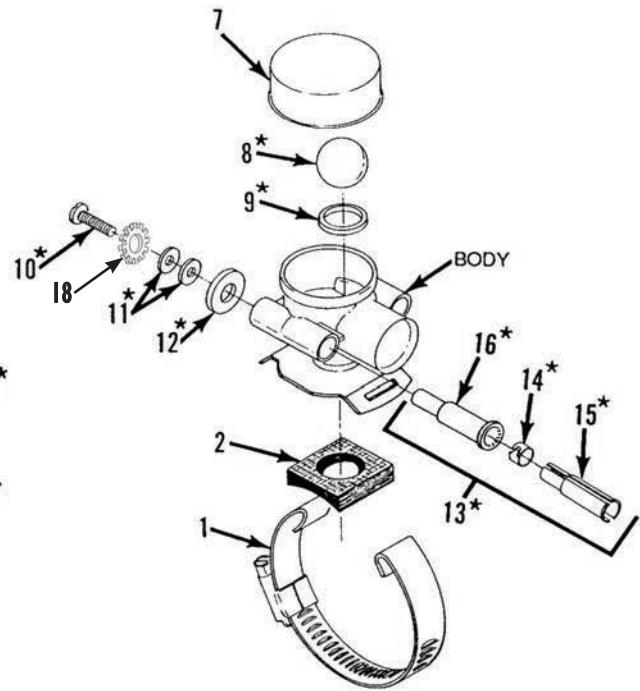
NOTE:

1. Use 5A circuit breaker as replacement for any 3A circuit breakers.

## Die-Cast Stallcocks

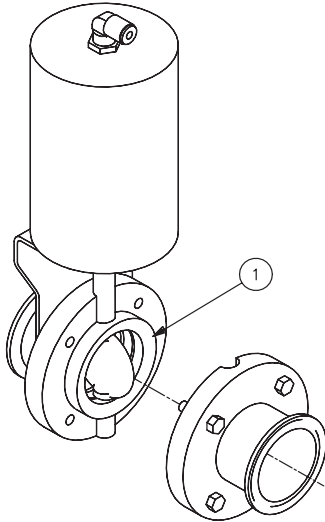


## Stainless-Steel Stallcocks



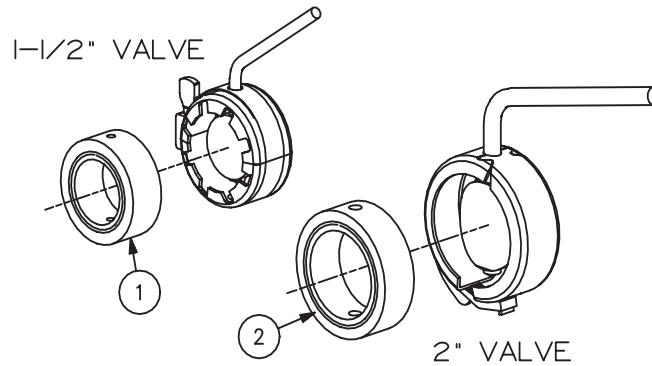
ITEM	PART NO.	ⓧ=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)				
	8517600		Stallcock, Die-Cast, 3/8 NPT	600				
	8511624		Stallcock, Die-Cast, Clamp-On	624				
	8511604	ⓧ	Stallcock, Die-Cast, Clamp-On (Replaced by 8511624)	604				
	8517617	ⓧ	Stallcock, SS, Clamp-On	617				
	8517608	ⓧ	Stallcock, SS, Clamp-On	608				
1	8500857		Clamp, SS, Valve Assy, 1.5 x 4	-	1	1	1	1
2	8500804		Gasket, Milk Valve, 5/8	-	-	1	-	1
	8500855	ⓧ	Gasket, 3/4	-	-	-	1	-
	8504010		Gasket, 3/4, Hole	-	1	-	-	-
3	8511603		Ear Assy, SS, 3/8 NPT	-	1	1	-	-
4	1090165	ⓧ	TFSCR, HXH, SS, 6-32 x 1/2 TT (replaced by 1089165)	1	1	1	-	-
	1089165		TFSCR, HXH, SS, 6-32 x 1/2	1	1	1	-	-
5	8500709		Wshr, Br, .152 x .380 x .05	2	2	2	-	-
	1208383		Washer, Plain, SS, #8	2	2	-	-	-
6	8500704		Kit, Repair, Stallcock (Includes all parts marked with an asterisk H)	1	1	1	1	1
7	8500701		Cover, Stallcock	1	1	1	1	1
8	8517606		Ball, Check, Plstc, .65 Dia	1	1	1	1	1
9	8500718		Seal, Ring, Stallcock	1	1	1	1	1
10	1014167	ⓧ	MSCR, HXH, SS, 6-32 x 3/4 (replaced by 1038167)	2	2	2	2	2
	1038167		CSCR, HXH, SLOT, SS, 6-32 x 3/4	2	2	2	2	2
11	8500709		Wshr, Br, .152 x .380 x .05	4	4	4	4	4
12	8500707		Wshr, Polyp, .25 x .62 x .11	2	2	2	2	2
13	8500853		Contact Assy, Stallcock (Includes items 14 thru 16)	2	2	2	2	2
14	8519219		Bushing, Spring	1	1	1	1	1
15	8500850		Contact, Stallcock	2	2	2	2	2
16	8500708		Sleeve, Insulating	1	1	1	1	1
17	8519221		Kit, Repair, Contact, 20 (Includes 20 each of items 12 & 13)	a/r	a/r	a/r	a/r	a/r
18	1249382		Washer, Lock, Ext-T, SS, #6, Type A	3	3	3	2	2

# Butterfly Valve



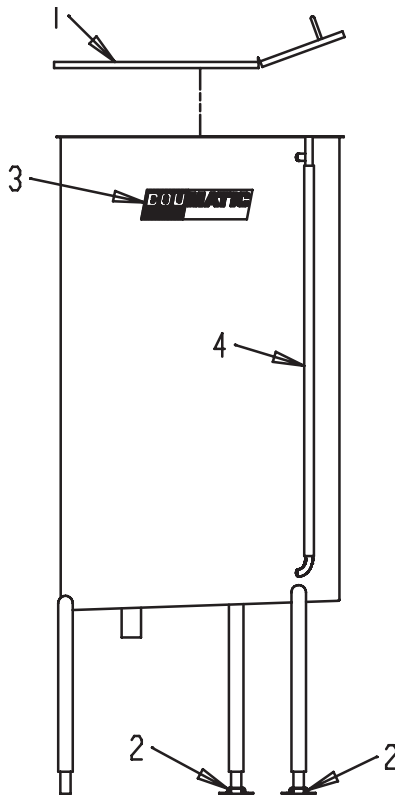
ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)			
	8509974	Valve, Butterfly, 1.5, Air Closed	974			
	8509975	Valve, Butterfly, 2.0, Air Closed	975			
	8509976	Valve, Butterfly, 2.5, Air Closed	976			
	8502785	Valve, Butterfly, 3.0, Air Closed	785			
	8502786	Valve, Butterfly, 4.0, Air Closed	786			
1	8510340	Seat, 1.5", Butterfly Valve, Rbr	1	-	-	-
	8510341	Seat, 2", Butterfly Valve, Rbr	-	1	-	-
	8510342	Seat, 2.5", Butterfly Valve, Rbr	-	-	1	-
	8510343	Seat, 3", Butterfly Valve, Rbr	-	-	-	1
	8510344	Seat, 4", Butterfly Valve, Rbr	-	-	-	1

## 1-1/2 & 2 Inch Butterfly Valves



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	8507986	Valve, Butterfly, Wash Line, 1.5	986	
	8507986	Valve, Butterfly, Wash Line, 2 IN	988	
1	8507987	Gasket, Valve, 1.5 IN	1	-
2	8507989	Gasket, Valve, 2 IN	-	1

## Vertical Tank Assemblies

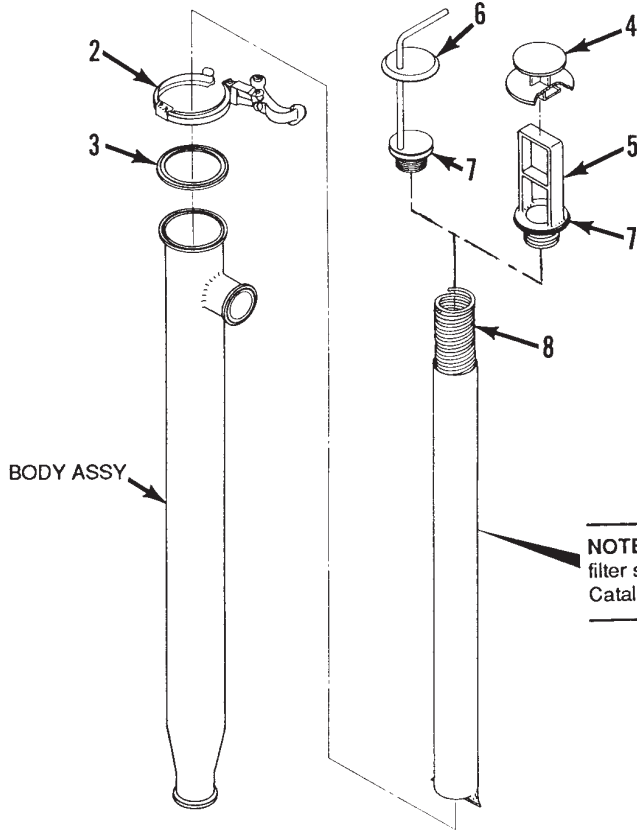


ITEM	PART NO.	⊗=OBSELETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	8517775	⊗	Tank Assy, Vert 99 Gal	775		
	8517776	⊗	Tank Assy, Vert 132 Gal	776		
	8517777	⊗	Tank Assy, Vert 163 Gal	777		
1	8517778	⊗	n/s Lid, Flat, Blank, Vertical Tank	1	1	1
	8517779	⊗	Lid, Hngd, Blank, Vertical tank	1	1	1
2	8517780	⊗	Anchor, Tank	2	2	2
3	8506167		Label, Bou-Matic, 3.00 x 10.00	1	1	1
4	8590222		Hose, Milk, B/M, 5/8 ID x 140 ft	a/r	a/r	a/r



## 2-1/2 Inch Milk-Filter Assembly

SECTION	PAGE
<b>C</b>	<b>45</b>
EFFECTIVE:	10/7/16



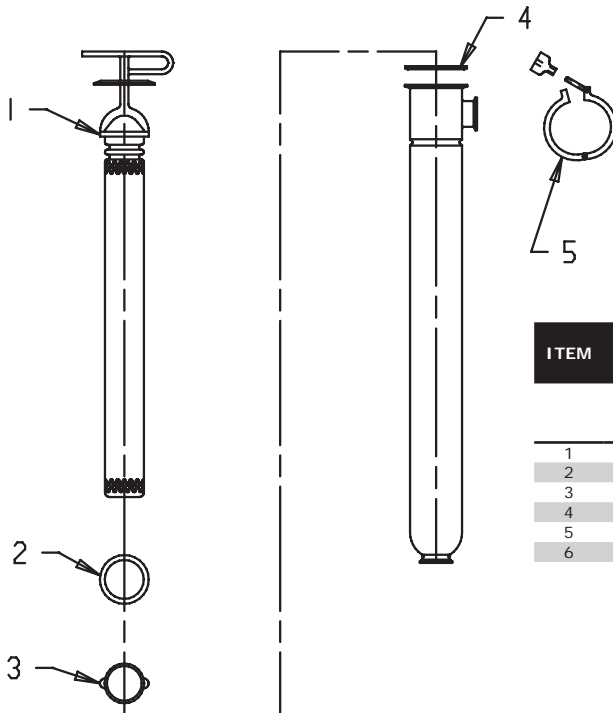
ITEM	PART NO.	⊗ = OBSOLETE n/s = NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	8500529		Filter Assy, Milk, 2-1/2 In	529	
	8510237		Filter Assy, Milk, 2.5 X 2.0, Side	237	
1	- - - -		Literature 9P-376 (Installation Instructions)	ref	ref
2	8500346		Clamp, Hinged, SS, 2.5 In	1	1
3	8500524		Gasket, Tri-Clamp, Flg, 2-1/2	1	1
4	8500528	⊗	Cap, Milk-Filter	1	1
5	8500527	⊗	Plug, Milk-Filter	1	1
6	8500874 <sup>1</sup>		Handle Assy, Milk Filter	1	1
7	8500520		O-ring, 1.850 x .210	1	1
8	8500519		Coil, Milk Filter	1	1
9	8500523	n/s	Body Assy,Milk Filter	1	-
	8510238	n/s	Body Assy,Milk Filter,2.00	-	1
10	0200175	n/s	Cntnr,Fol, 4.00X 4.00X31.50	1	1

Note:

1.Handle Assy 8500874, supplied with later versions, can also be used as replacement for combination of Items 4 & 5 on earlier versions.

**NOTE:** To order 3" x 23-3/8" filter socks, see Equipment Catalog or Price Book.

## 4 Inch Milk-Filter Assembly

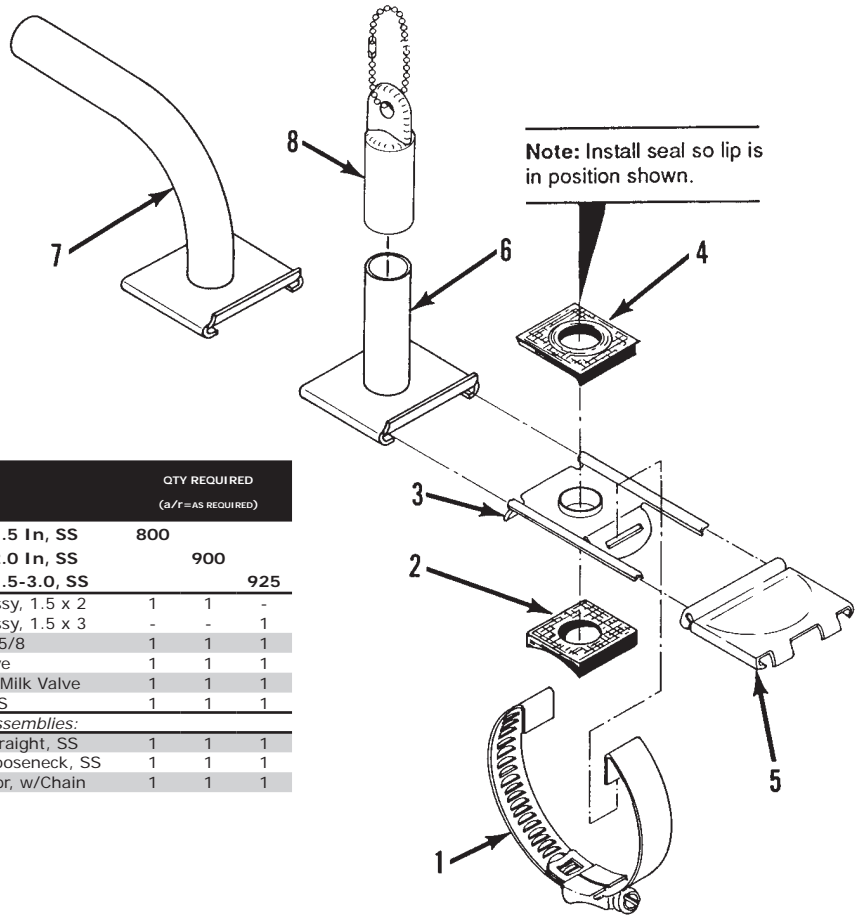


ITEM	PART NO.	⊗ = OBSOLETE n/s = NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	8500887		Filter, Milk, 4" x 2" Side Discharge	887	
	8509381		Filter, Milk, 4" x 2.5" Side Discharge	381	
1	8500888		Insert, 4" Filter	1	
2	8500889		Seal, Top, 4" Filter	1	
3	8500890		O-ring, Tab, 4" Filter	2	
4	8519958		Gasket, Flange, 4", Hycar	1	
5	8519972		Clamp, Hinged, 4", Hvy Duty	1	
6	8500892	⊗ n/s	Filter, Sock, 4.88 x 33.00	1	



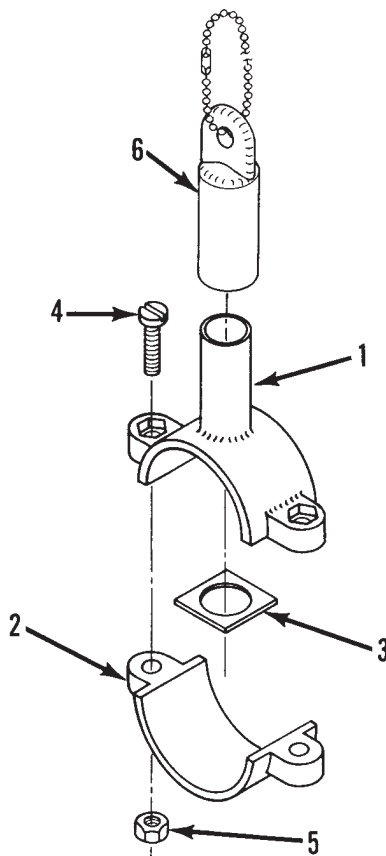
ITEM	PART NO.	=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)									
	8500811	⊗	Valve Assy, Milk, Plstc, 1.5 In	811									
	8500812	⊗	Valve Assy, Milk, Plstc, 2 In	812									
	8500813	⊗	Valve Assy, Milk, Plstc, 2.5 In		813					all old			
	8500814	⊗	Valve Assy, Milk, Plstc, 3 In			814				style			
	8518068		Valve Assy, Milk, Plstc, 1.5 In							068			
	8518069		Valve Assy, Milk, Plstc, 2 In								069		
	8518070		Valve Assy, Milk, Plstc, 2.5 In									070	
	8518071		Valve Assy, Milk, Plstc, 3 In										071
1	8500826		Valve, Top, Plstc, 1.5	1	-	-	-	-	1	-	-	-	-
	8500822		Valve, Top, Plstc, 2.0	-	1	-	-	-	-	1	-	-	-
	8500827		Valve, Top, Plstc, 2.5	-	-	1	-	-	-	-	1	-	-
	8500829		Valve, Top, Plstc, 3.0	-	-	-	1	-	-	-	-	-	1
2	8500825		Nipple Bot, Plstc, 1.5 In	1	-	-	-	-	1	-	-	-	-
	8500821		Nipple Bot, Plstc, 2 In	-	1	-	-	-	-	1	-	-	-
	8500828		Nipple Bot, Plstc, 2.5 In	-	-	1	-	-	-	-	1	-	-
	8500830		Nipple Bot, Plstc, 3 In	-	-	-	1	-	-	-	-	-	1
3	8518061	⊗	Cover, Milk Valve, SS	1	1	1	1	-	-	-	-	-	-
	8518059		Cover Assy, w/Stud	-	-	-	-	-	1	1	1	1	1
4	8500831		MSCR, CHH, SS, M6-1.0 x 20mm	2	2	2	2	-	2	2	2	2	2
5	8519890	⊗	MSCR, CHH, SS, M6-1.0 x 30mm	-	-	-	-	2	-	-	-	-	-
6	8519892		Nut, Hex, SS, M6-1.0mm	2	2	2	2	2	2	2	2	2	2
7	8500849		Seal, Valve	1	1	1	1	1	1	1	1	1	1
8	8500809		Gasket, Milk Valve	1	1	1	1	1	1	1	1	1	1
9	8519251		Spring, Detent, Milk-Valve-G	-	-	-	-	-	1	1	1	1	1
10	8518060	n/s	Kit,Cover w/Spring, Milk valve (Includes Washers, Nut & Items 3 (8518059) & 9)	-	-	-	-	-	a/r	a/r	a/r	a/r	a/r

## SS Milk-Valve Assemblies



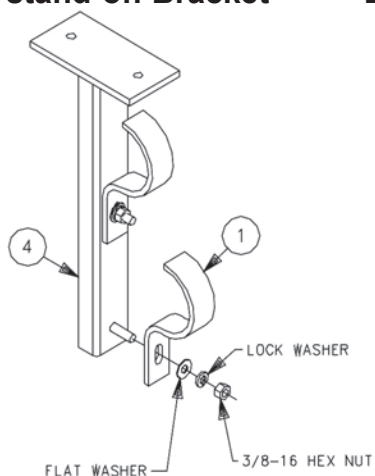
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)		
	8500800	⊗	Valve Assy, Milk, 1.5 In, SS	800		
	8500900	⊗	Valve Assy, Milk, 2.0 In, SS	900		
	8500925	⊗	Valve Assy, Milk, 1.5-3.0, SS		925	
1	8510200	⊗	Clamp, SS, Valve Assy, 1.5 x 2	1	1	-
	8510202		Clamp, SS, Valve Assy, 1.5 x 3	-	-	1
2	8500804		Gasket, Milk Valve, 5/8	1	1	1
3	8500901	⊗	Base Assy, Milk-Valve	1	1	1
4	8500802		Seal, Cover, Sliding Milk Valve	1	1	1
5	8518061	⊗	Cover, Milk Valve, SS	1	1	1
<i>Not supplied with assemblies:</i>						
6	8511607	⊗	Nipple, Slide-On, Straight, SS	1	1	1
7	8511608		Nipple, Slide-On, Gooseneck, SS	1	1	1
8	8508923		Protector, Nipple, Rbr, w/Chain	1	1	1

## Plastic Milk Nipples

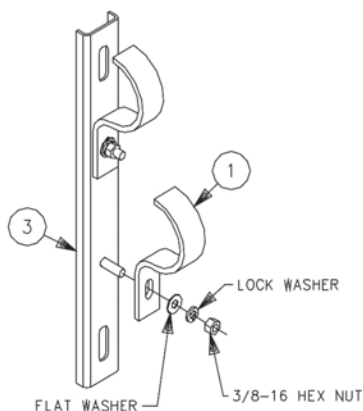


ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)			
	8500823	⊗	Nipple Assy, Str, Plastic, 1.5 In	0823			
	8500819	shown	Nipple Assy, Str, Plastic, 2 In	0819			
	8500834	⊗	Nipple Assy, Str, Plastic, 2.5 In		0834		
	8500835	⊗	Nipple Assy, Str, Plastic, 3 In			0835	
1	8500824	⊗	Nipple Top, Plstc, 5/8 ID, 1.5 In	1	-	-	-
	8500820		Nipple Top, Plstc, 5/8 ID, 2 In	-	1	-	-
	8500832	⊗	Nipple Top, Plstc, 5/8 ID, 2.5 In	-	-	1	-
	8500833	⊗	Nipple Top, Plstc, 5/8 ID, 3 In	-	-	-	1
2	8500825		Nipple Bot, Plstc, 1.5 In	1	-	-	-
	8500821		Nipple Bot, Plstc, 2 In	-	1	-	-
	8500828		Nipple Bot, Plstc, 2.5 In	-	-	1	-
	8500830		Nipple Bot, Plstc, 3 In	-	-	-	1
3	8500809		Gasket, Milk Valve	1	1	1	1
4	8500831		MSCR, CHH, SS, M6-1.0 x 20mm	2	2	2	2
5	8519892		Nut, Hex, SS, M6-1.0 mm	2	2	2	2
6	8508923		Protector, Nipple, Rbr, w/Chain (Not supplied with assemblies)	1	1	1	1

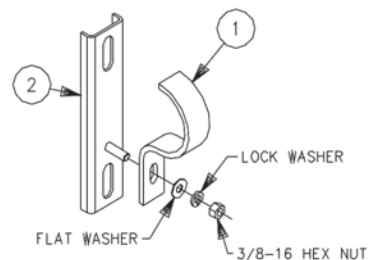
### Vinyl-Coated stand-off Bracket



### Vinyl-Coated Double-Bracket Assemblies

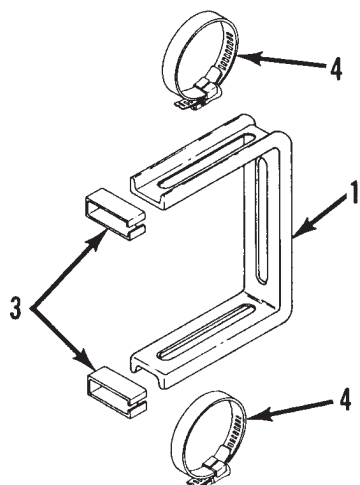


### Vinyl-Coated Single-Bracket Assemblies

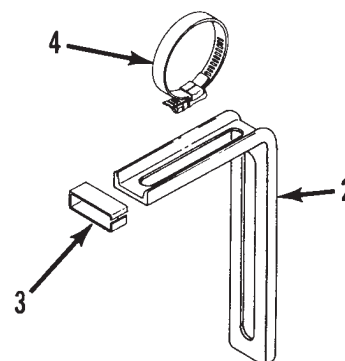


ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)									
	8500532	⊗	Bracket Assy, Single, 2 In (shown)	0532									
	8500533	⊗	Bracket Assy, Single, 2.5 In		0533								
	8500534		Bracket Assy, Single, 3 In			0534							
	8500870	⊗	Bracket Assy, Single, 4 In				0870						
	8500536	⊗	Bracket Assy, Double, 2 In (shown)					0536					
	8500537	⊗	Bracket Assy, Double, 2.5 In						0537				
	8500538		Bracket Assy, Double, 3 In							0538			
	8500875		Bracket Assy, Double, 4 In								0875		
	8501833		Bracket Assy, Double, 3 In, Standoff									8133	
1	8500543	⊗	Clamp, 2.0 In, Vinyl-Coated	1	-	-	-	2	-	-	-	-	-
	8500544		Clamp, 2.5 In, Vinyl-Coated	-	1	-	-	-	2	-	-	-	-
	8500545		Clamp, 3.0 In, Vinyl-Coated	-	-	1	-	-	-	2	-	-	2
	8500867		Clamp, 4.0 In, Vinyl-Coated	-	-	-	1	-	-	-	2	-	-
2	8500546		Bracket, Single, Vinyl-Coated	1	1	1	-	-	-	-	-	-	-
	8500869	⊗	Bracket, Single, Vinyl-Coated	-	-	-	1	-	-	-	-	-	-
3	8600547		Bracket, Double, Vinyl-Coated	-	-	-	-	1	1	1	-	-	-
	8500876		Bracket, Double, Vinyl-Coated	-	-	-	-	-	-	-	1	-	-
4	8518131		Bracket, Double 3", Vinyl-Coated	-	-	-	-	-	-	-	-	-	1

### Vinyl-Coated U-Bracket Assembly

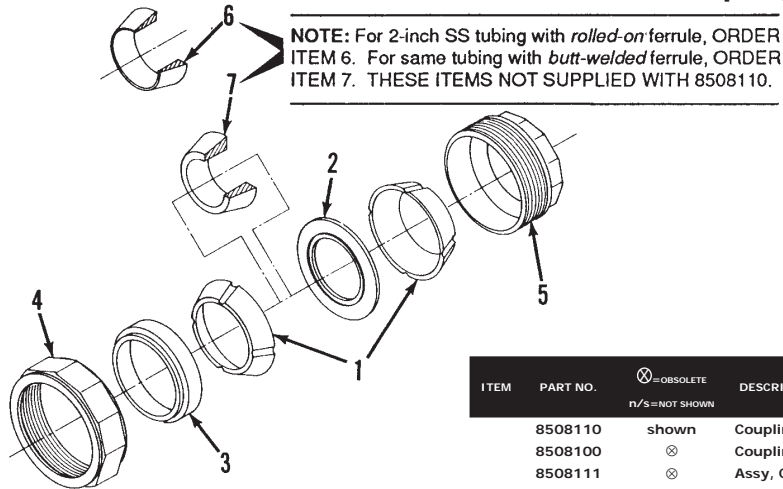


### Vinyl-Coated L-Bracket Assembly

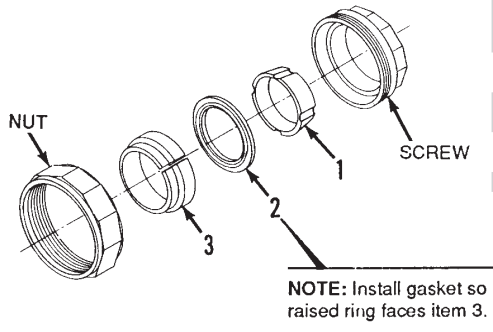


ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)	
	8510210	U-Bracket Assy	0210	
	8510211	L-Bracket Assy		0211
1	8510208	Bracket, U, Vinyl-Coated	1	-
2	8510209	Bracket, L, Vinyl-Coated	1	-
3	8510207	Clip, Bracket, SS	2	1
4	8510105	Clamp, Hose, SS, #56, 2.13-4.00	2	1

## Chrome Couplings

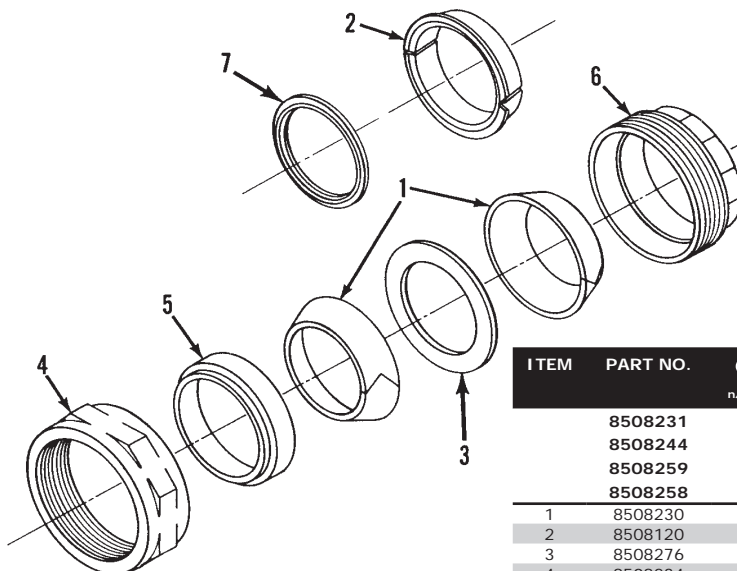


## Chrome Reducer Coupling for 2 to 1.5 Inch Glass



ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (A/T=AS REQUIRED)			
	8508110	shown	Coupling, Assy, Crpl, 2.0", GL	110			
	8508100	⊗	Coupling, Crpl, 1.5", GL		100		
	8508111	⊗	Assy, Crpl, 2-to-1.5 GL			111	
	8508255		Coupling, Assy, GL-TO-SS, 2.0"				255
	8509546		Coupling, Assy, 2.00, CRPL				546
1	8508218		Bushing, Coupling, 2.0" RBR	2	-	-	2
	8509545		Bushing, Coupling, 2.0" PLSTC	-	-	-	2
	8514904		Bushing, Coupling, 1.5", RBR	-	2	1	-
	8508219		Gasket, Coupling, Rbr, 2.00 x 3.09 OD	1	-	-	1
2	8514905		Gasket, Rbr, 1.50 ID x 2.59 OD	-	1	-	-
	8508117		Gasket, Rbr, 2.00 ID x 2.60 OD	-	-	1	-
	8508214		Bushing, Coupling, Crpl	1	-	-	1
3	- - - -	⊗	Bushing, Coupling, Crpl	-	1	-	-
	8508116	⊗	Bushing, Coupling, Plastic	-	-	1	-
4	8508215		Nut, Coupling, 2", Crpl	1	-	-	1
	- - - -	⊗	Nut, Coupling, Crpl, 1.5 In	-	1	-	-
5	8508216		Coupling, EXT THD, 2.0", CRPL	1	-	-	1
	- - - -	⊗	Screw, Coupling, Crpl, 1.5"	-	1	-	-
6	8508115		Bushing, Coupling, 2.2", RBR	1	-	-	-
7	8508114		Bushing, Coupling, 2", RBR	1	-	-	1

## 3-Inch Plastic Couplings



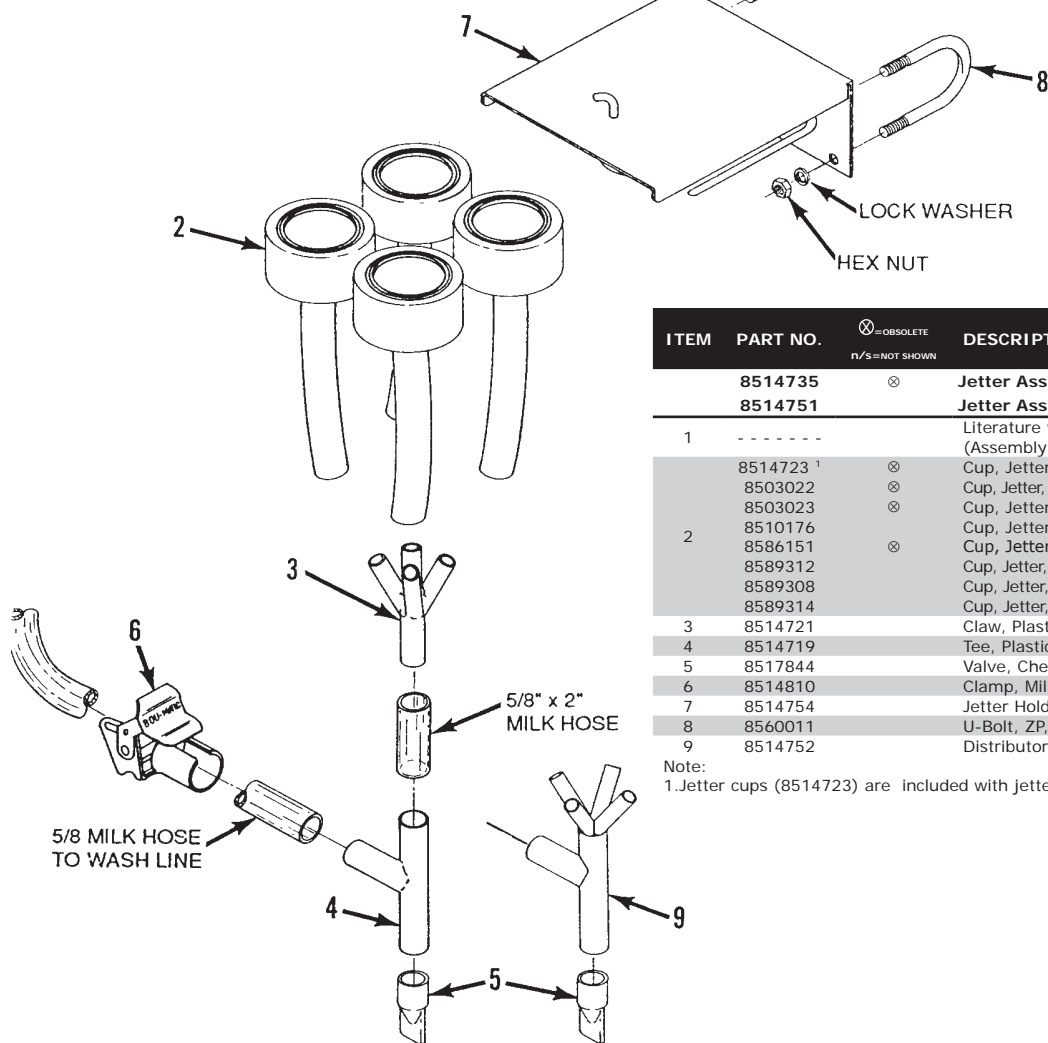
ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (A/T=AS REQUIRED)			
	8508231		Coupling, Assy, GL-to-GL, 3"	231			
	8508244	⊗	Coupling, Assy, GL-to-SS, 3"		244		
	8508259		Coupling, Assy, GL-to-Plstc, 3"			259	
	8508258	⊗	Coupling, Assy, SS-to-SS, 3"				258
1	8508230		Gasket, Tapered, 3 In	2	1	1	-
2	8508120		Bushing, Coupling, 3 In	-	1	1	2
3	8508276		Gasket, Rbr, 3.03 ID x 4.343 OD	1	1	1	-
4	8508234		Nut, Coupling, 3 In	1	1	1	1
5	8508236		Bushing, Coupling, Plastic	1	1	1	1
6	8508235		Screw, Coupling, 3 In	1	1	1	1
7	8513767		Gasket, Flanged, 3 In Hycar	-	-	-	1

# Jetter Assembly

SECTION C  
EFFECTIVE: 9/25/11

PAGE 51

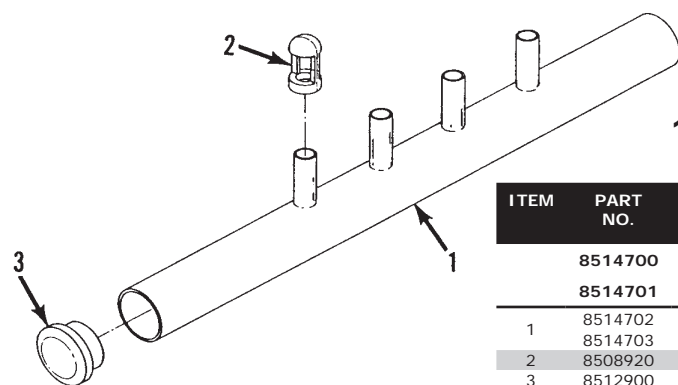
Note: Use HXH CSCR, 5/16-18 x 1, for mounting holder assembly to splash shield.



ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (A/F=AS REQUIRED)	
	8514735	⊗	Jetter Assy, w/Holder	4735	
	8514751		Jetter Assy, w/Holder	4751	
1	-----		Literature 9P-230 (Assembly & Installation Instructions)	ref	ref
2	8514723 1	⊗	Cup, Jetter, Rubber	4	4
	8503022	⊗	Cup, Jetter, R-Series/Magnum Series	4	4
	8503023	⊗	Cup, Jetter, DK-Series/RM1	4	4
	8510176		Cup, Jetter, Competitive	4	4
	8586151	⊗	Cup, Jetter, Low Profile, Long	4	4
	8589312		Cup, Jetter, R-Series, Long, CS/100	4	4
	8589308		Cup, Jetter, Magnum, Long, CS/100	4	4
	8589314		Cup, Jetter, Xpress, Long, CS/100	4	4
3	8514721		Claw, Plastic	1	-
4	8514719		Tee, Plastic, 5/8 Hose	1	-
5	8517844		Valve, Check, Duck-Bill, Rub	1	1
6	8514810		Clamp, Milk-Hose Shutoff	1	-
7	8514754		Jetter Holder Assy, SS	1	1
8	8560011		U-Bolt, ZP, 5/16-18 x 2 In	2	2
9	8514752		Distributor, SS, Jetter	-	1

Note:

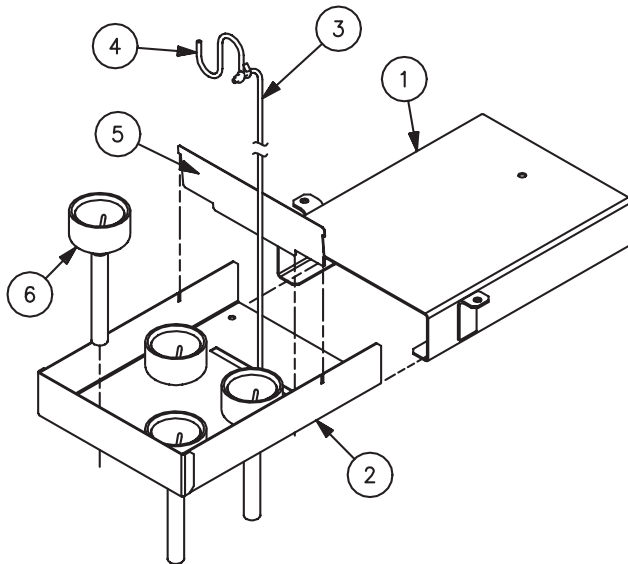
1. Jetter cups (8514723) are included with jetter drawer assembly (8514751).



## 1-1/2 Inch Manifold Assemblies

ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (A/F=AS REQUIRED)	
	8514700	⊗	Manifold Assy, 4-Nip, 1-1/2"	4700	
	8514701	⊗	Manifold Assy, 6-Nip, 1-1/2"	4701	
1	8514702	⊗	Manifold, Wash, 4-Nip, 1-1/2 In (shown)	1	-
	8514703	⊗	Manifold, Wash, 6-Nip, 1-1/2 In	-	1
2	8508920		Cap, Rubber, Milk-Inlet	4	6
3	8512900	⊗	Plug, Int, Rbr, Manifold	1	1

## Jetter Drawer Assembly SS

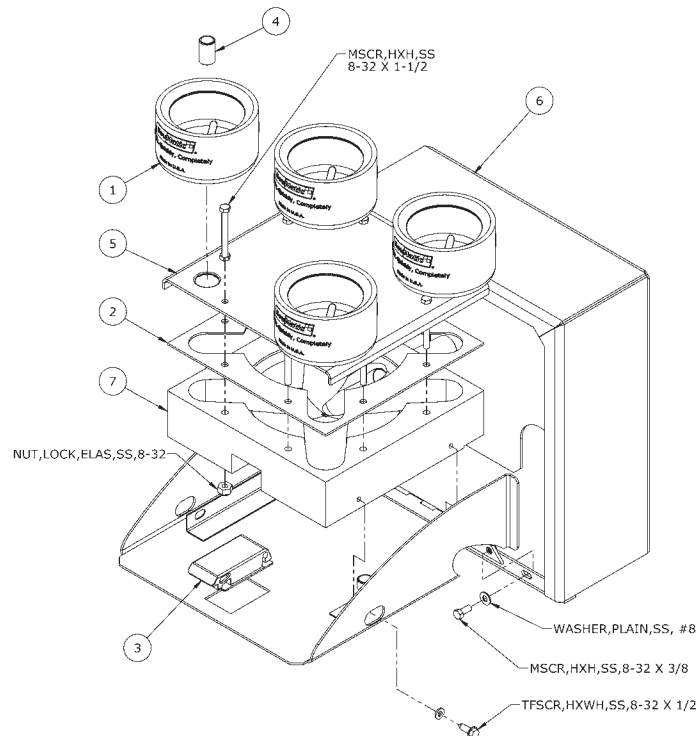


ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
<b>8502881 Drawer Assy, SS Jetter</b>				<b>2881</b>
1	8502503		Bracket Assy, Jetter Holder	1
2	8503044		Drawer, Assy, Jetter	1
3	8560742	⊗	Cord, Braided Nylon, 3/16 Dia	a/r
4	8502880		Hook, S, W/ eyelet	1
5	8502501		Plate, Back, Jetter Holder	1
6	8503022 <sup>1</sup>	⊗	Cup, Jetter, R-Series/Magnum Series	4
	8503023 <sup>1</sup>	⊗	Cup, Jetter, DK-Series/RM1	4
	8510176 <sup>1</sup>	⊗	Cup, Jetter, Competitive	4
	8586151 <sup>1</sup>	⊗	Cup, Jetter, Low Profile, Long	4
	8589312		Cup, Jetter, R-Series, Long, CS/100	4
	8589308		Cup, Jetter, Magnum, Long, CS/100	4
	8589314		Cup, Jetter, Xpresser, Long, CS/100	4
7	-----		Literature, 9ES-818 (Installation & Operation Instructions)	a/r

Note:

1. Jetter cups not included with jetter drawer assembly (8502881).

## Under Curb Jetter Assembly



ITEM	PART NO.	⊗=OBSOLETE N/S=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)
<b>8509935 Jetter Assy, Under Curb</b>				<b>9935</b>
1	8503691 <sup>1</sup>	⊗	Cup, Jetter, Short, R-Series/Mag. Series	4
	8503692	⊗	Cup, Jetter, Short, DK-Series/RM1	4
	8510177	⊗	Cup, Jetter, Short, Competitive	4
	8586152	⊗	Cup, Jetter, Low Profile, Short	4
	8589313		Cup, Jetter, R-Series, Short, CS/100	4
	8589315		Cup, Jetter, Xpress, Short, CS/100	4
	8589309		Cup, Jetter, Magnum, Short, CS/100	4
2	8502896		Gasket, Jetter	1
3	8502966		Latch, Sliding	1
4	8513215		Tube, .44 x .049 x .88, SS	4
5	8502898		Cover, Jetter	1
6	8509934		Wrapper Assy, Jetter	1
7	8502895		Distributor, Jetter	1
8	-----		Literature, 9E-798 (Installation & Operation Instructions)	a/r

Note:

1. Jetter cups (8503691) are included with jetter drawer assembly (8509935).

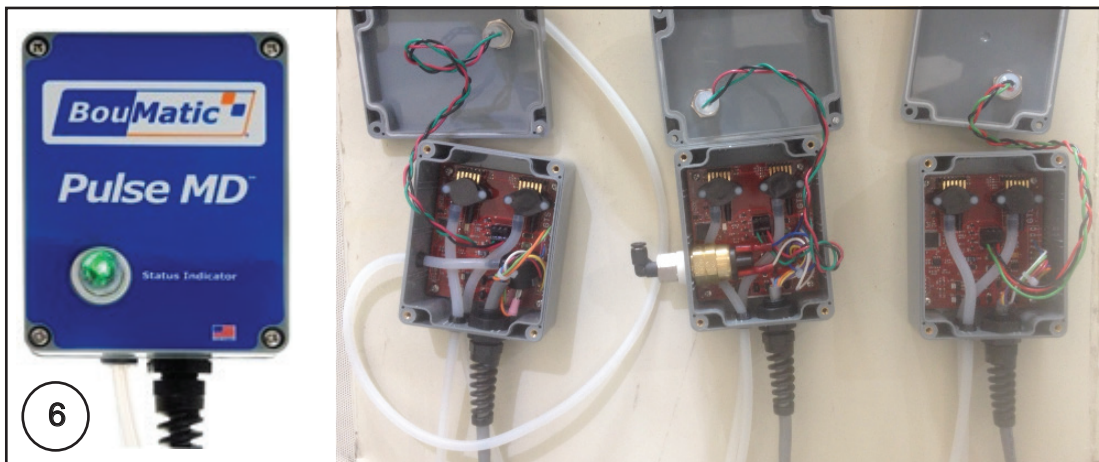
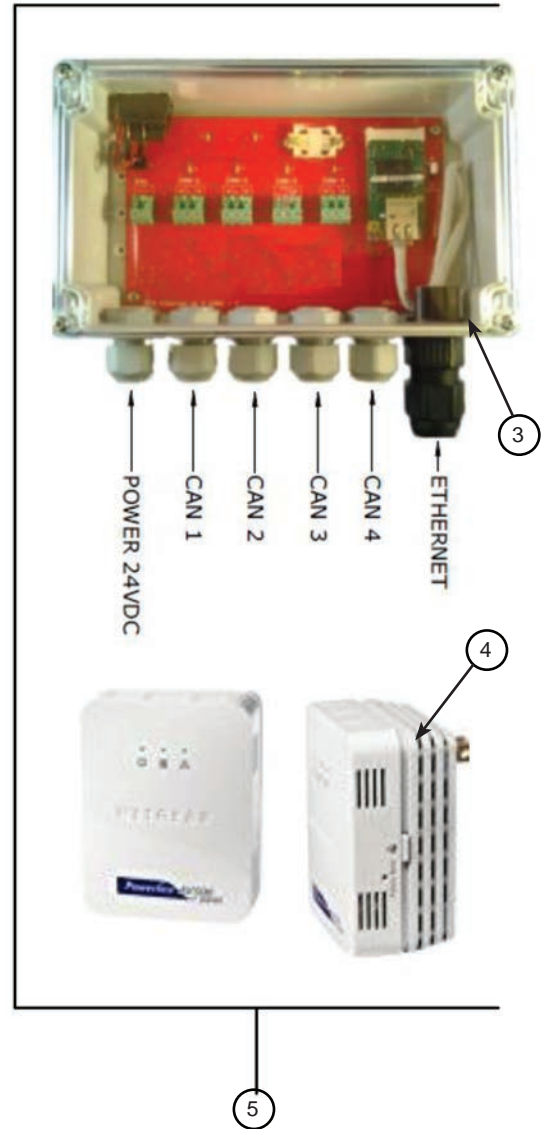
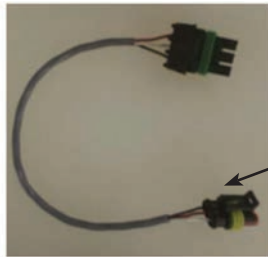


# Pulse MD

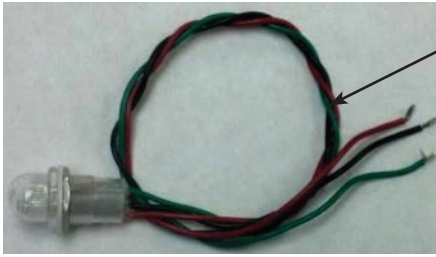
ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY Req. (a/r=AS REQ.)
Individual Pulse MD Components				
1	3562477		PULSE MD PIGTAIL 105.2 TO WP	a/r
2	3562512		TEE, PLASTIC, PULSE MD	a/r
3	8591425		ETHERNET-CAN (4 CAN NETWORKS)	a/r
4	8592339		ADAPTER POWERLINE AV500	a/r
5	8591915 <sup>1</sup>		ETHERNET OVER POWER LINE, PMD	a/r
	3562712		PULSE MD KIT, 24VDC	a/r
6	3562811	⊗	PULSE MD KIT, AIR ACTIVATED	a/r
	3562812	⊗	PULSE MD KIT, VAC ACTIVATED	a/r
7	3562509		PULSE MD LIGHT ASSY, RED/GRN	a/r
8	3562511		PULSE MD FLOAT CHECK VALVE	a/r
9	3562471		PULSE MD SS MOUNT BRACKET	a/r
10	3562475		TERM, PULSE MD, NTRWK	a/r
11	3562510		PULSE MD TRANSDUCER	a/r
12	3562809		SWITCH, PRESSURE, PULSE MD AIR	a/r
13	3562810		SWITCH, VACUUM, PULSE MD VAC	a/r
14	3562837	⊗	BOARD, PULSE MD (Use 3562712-PULSE MD Kit for replacement.)	a/r
15	1917689		CONNECTOR, TERM BLK, 5-POS., 2", F	a/r
16	1917688		CONNECTOR, TERM BLK, 5-POS., 2", M	a/r
17	1916625		CONNECTOR, PIN, FERRULE, 16 GA	a/r
18	1916626		CONNECTOR, PIN, FERRULE, 18 GA	a/r
19	3562525		CABLE ASSY, PULSE MD, 12ST, 30X12	a/r
	3562526		CABLE ASSY, PULSE MD, 12ST, 30X36	a/r
	3562527		CABLE ASSY, PULSE MD, 12ST, 44X12	a/r
	3562528		CABLE ASSY, PULSE MD, 12ST, 44X36	a/r
	3562790		CABLE ASSY, PULSE MD, 6ST, 30X12	a/r
	3562791		CABLE ASSY, PULSE MD, 6ST, 30X36	a/r
	3562792		CABLE ASSY, PULSE MD, 6ST, 44X12	a/r
	3562793		CABLE ASSY, PULSE MD, 6ST, 44X36	a/r
	1917689		CABLE ASSY, PARLOR END, 5-POS, F NS	a/r
	1917688		CABLE ASSY, PARLOR END, 5-POS, M NS	a/r
20	8591426		USB-CAN (1 CAN NETWORK)	a/r
21	1916815		CONNECTOR, PLUG, RA, 3P X 5MM	a/r

Note:

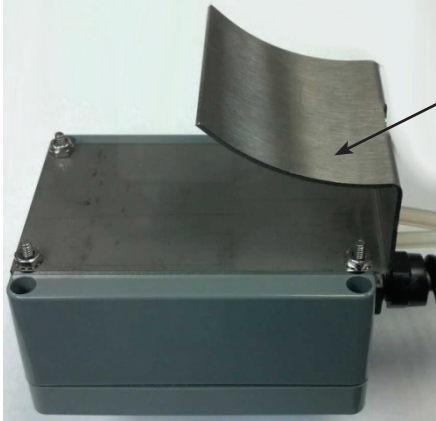
1. Contains two of 8592330 and one of 8591425.



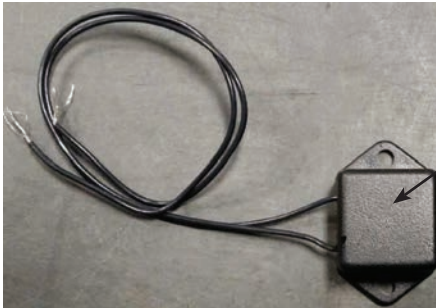
# Pulse MD, Cont.



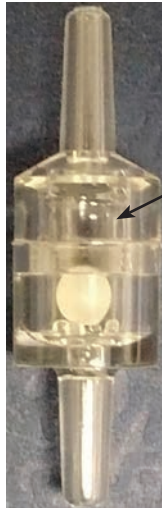
7



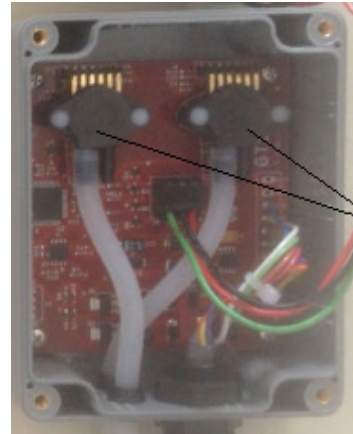
9



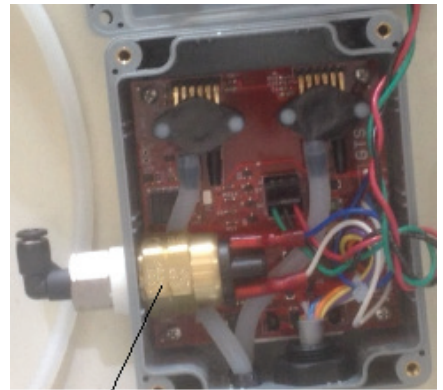
10



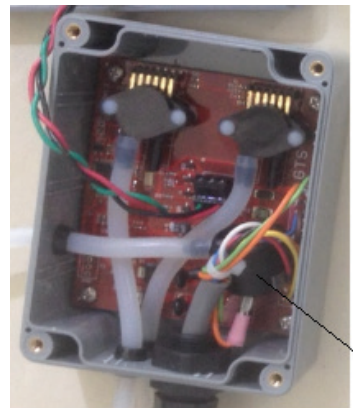
8



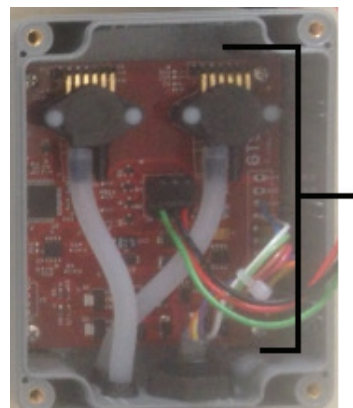
11



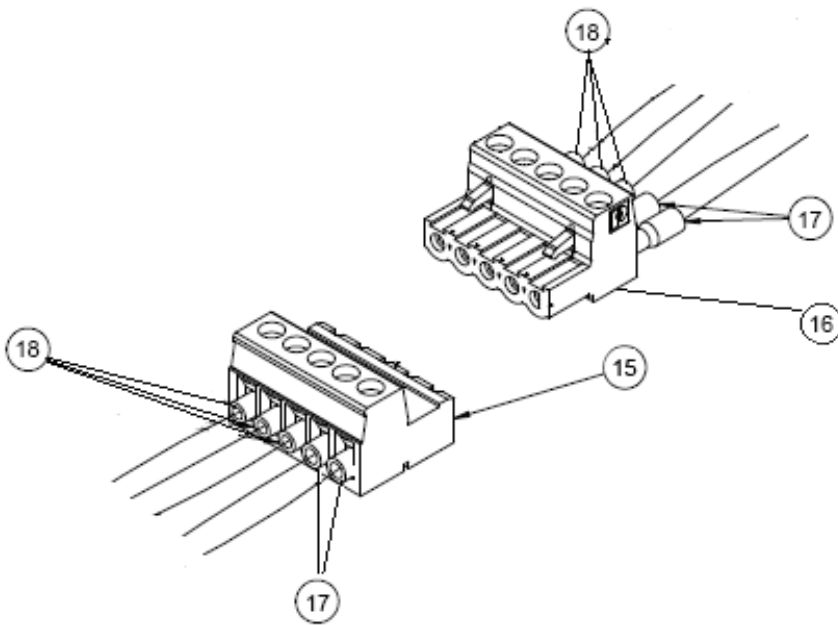
12

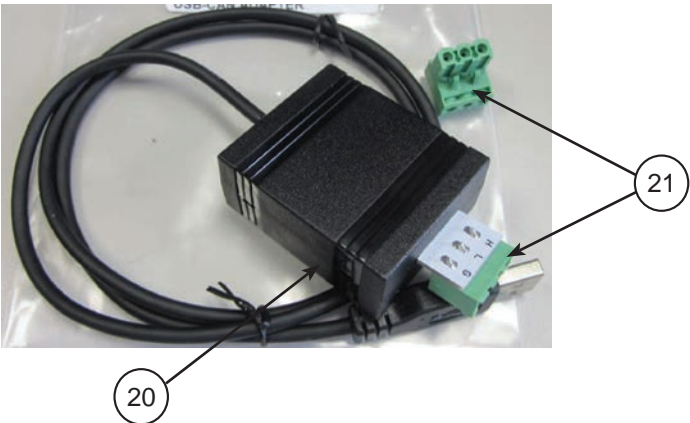
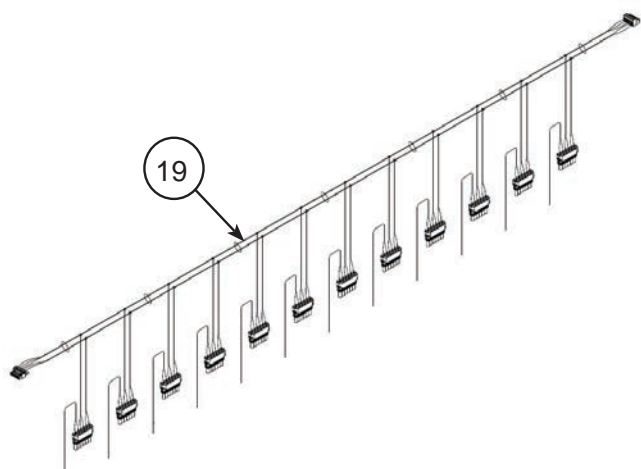


13

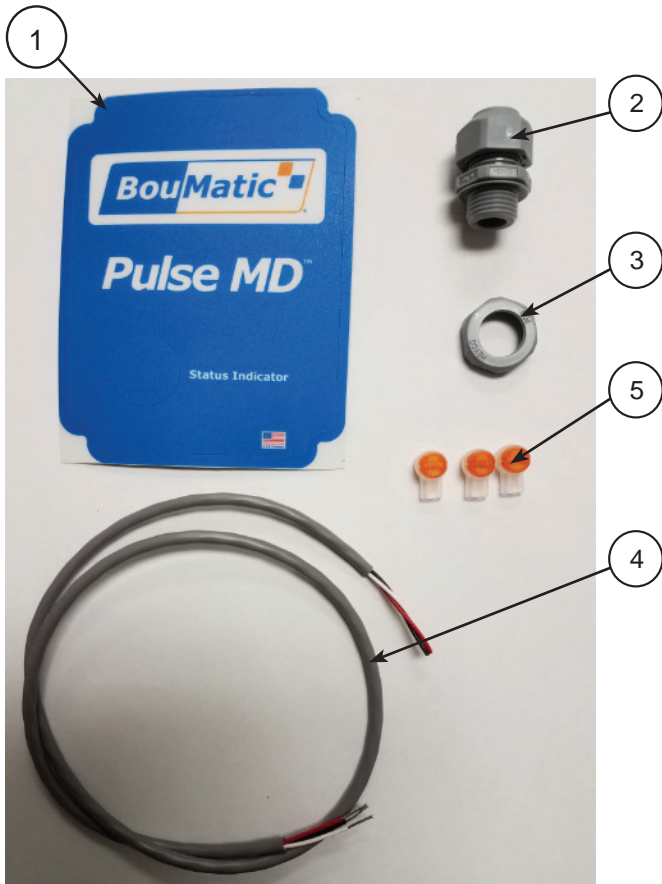


14





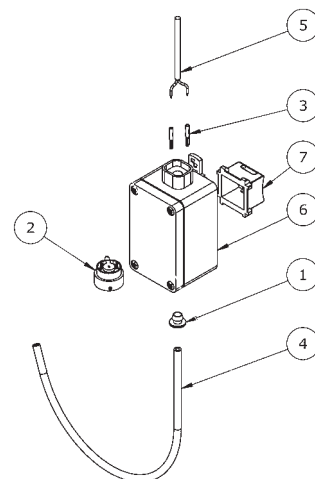
Pulse MD, Kit, Remote Lamp



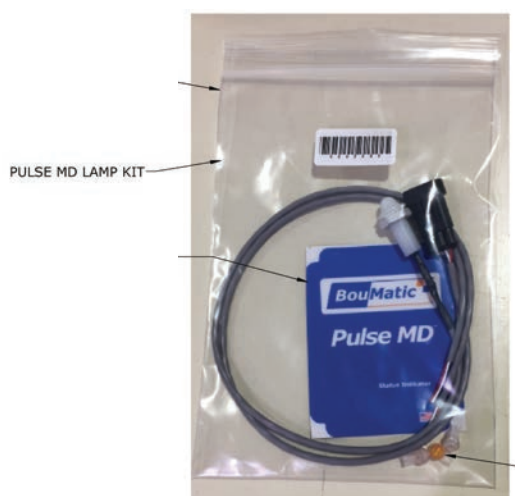
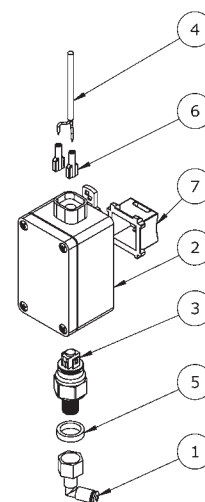
ITEM	PART NO.	<small>ⓧ=OBSOLETE N/S=NOT SHOWN</small>	DESCRIPTION	QTY. REQ. <small>(a/r=AS REQ.)</small>
-	3562714		Pulse MD, Remote Lamp Kit	-
1	3562715		Pulse MD, Label	2
2	1917502		Conn, Str-RI. .19-.30, PG9	1
3	1917561		Conn, Dome, Nut, PG9	1
4	3562716		Cable Assy, 3-con, 22GA, 24"	a/r
5	3562717		Pulse MD, Conn, Butt, 18-29 AWG	3

# Pulse MD with Display

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
-	3563399		VACUUM SWITCH, MILK SIGNAL,PMD	3399
1	3200012		QUICK FIT GROMMET RUBBER .250"	1
2	3562810		SWITCH,VACUUM,PULSE MD VAC	1
3	3563429		FEMALE DISCONNECT, 22-16 AWG	2
4	3556371		HOSE,SIL,.250 OD X.125 IDX.06W	1
5	4100015		22AWG 2C UNSHLD 1000FT	2
6	3563397		ASSY,ENCLOSURE,SWITCH,PMD	1
7	8592061		BLUE DIN BRACKET	1




ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
-	3563398		AIR SWITCH, MILK SIGNAL,PMD	3398
1	5200000		5/32 x 14 SWIVEL FEMALE ELBOW	1
2	3563397		ASSY,ENCLOSURE,SWITCH,PMD	1
3	3562809		SWITCH, PRESSURE, PULSE MD AIR	1
4	4100015		22AWG 2C UNSHLD 1000FT	2
5	3563043		SPACER,RD. PVC .50x.30	1
6	2700045		FEMALE DISCONNECT,RED	2
7	8592061		BLUE DIN BRACKET	1

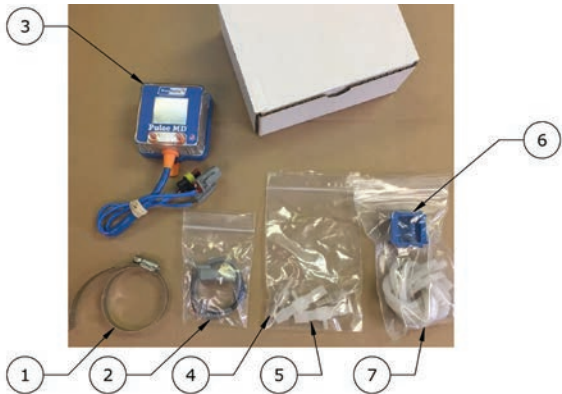



ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
-	8592592		PULSE MD LAMP KIT	a/r

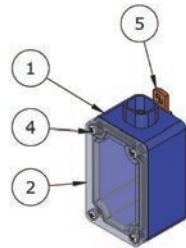



Pulse MD with Display

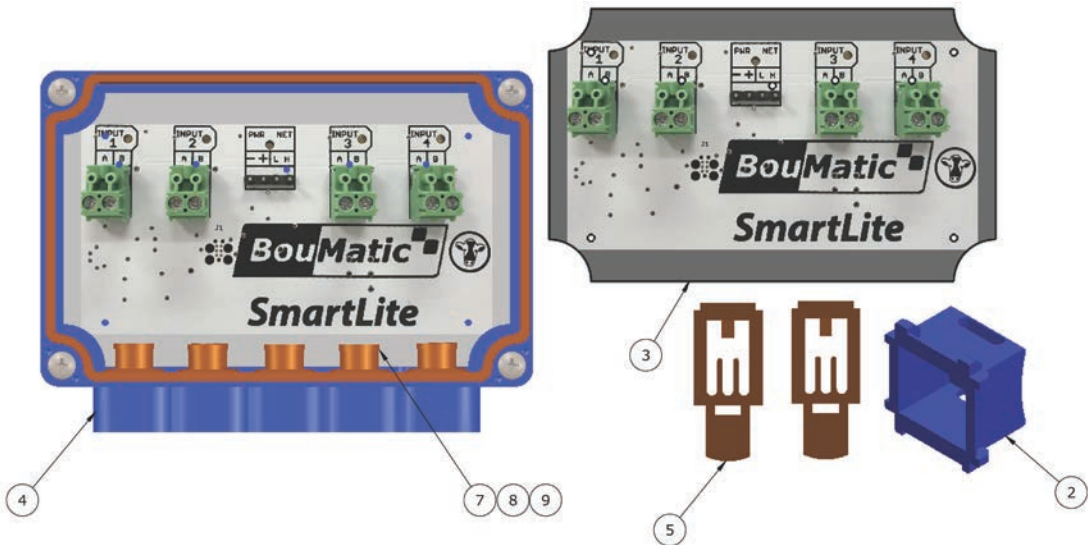
ITEM	PART NO.	 =OBsolete N/S=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
-	8592593		PULSE MD, LCD, KIT	2593
1	8510105		CLAMP,HOSE,SS,#56,2.13-4.00	1
2	8592594		FEMALE MILKING DECT PIG TAIL	1
3	8592063		PULSE MD MNTR, LCD	1
4	3562512		PLASTIC TEE,3/8 X 1/8	2
5	3562511		PULSE MD FLOAT CHECK VALVE	2
6	8592061		BLUE DIN BRACKET	1
7	3556371		HOSE,SIL,.250 OD X.125 IDX.06W	4



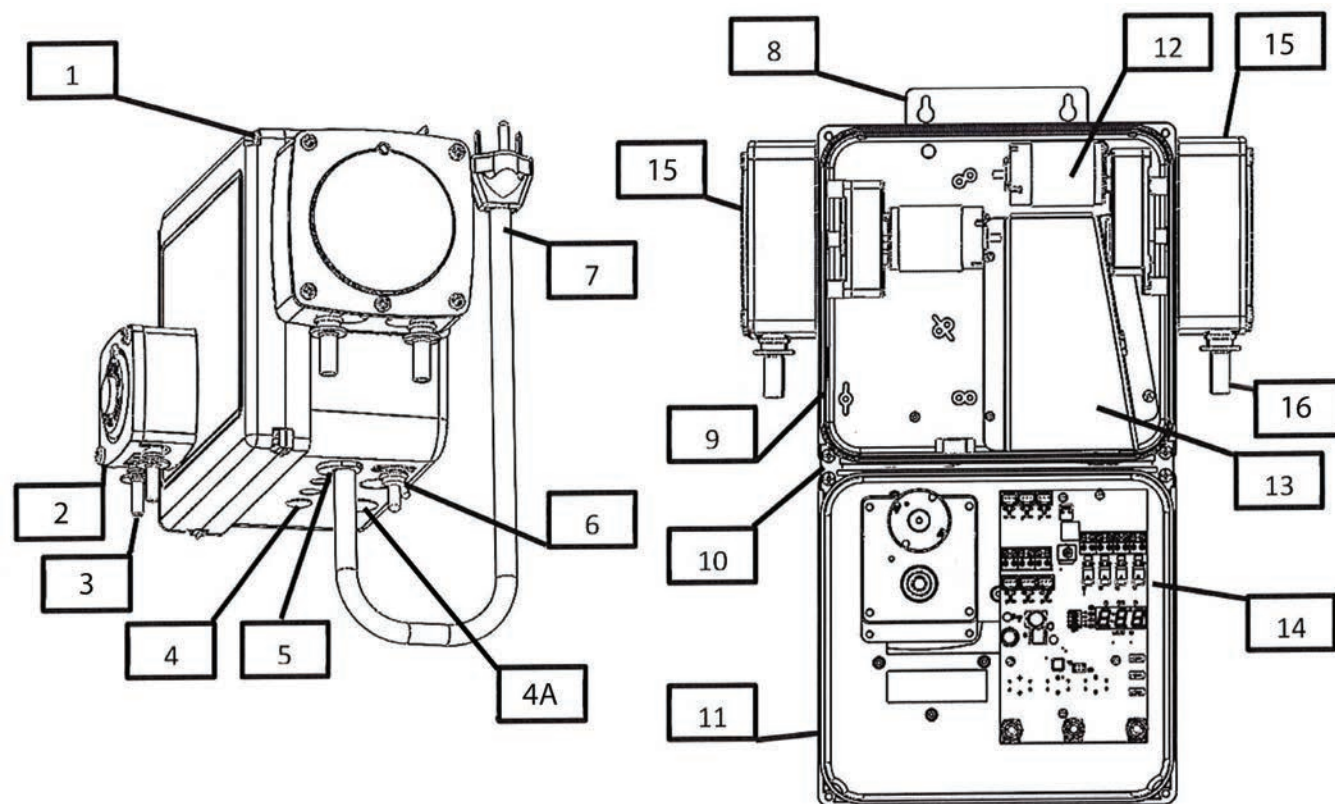
ITEM	PART NO.	 =OBsolete N/S=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
-	3563397		ASSY,ENCLOSURE,SWITCH,PMD	3397
1	3563396		BASE,ENCLOSURE,SWITCH,PMD	1
2	8592956		COVER,AIR,VAC SWITCH	1
3	6100017		PMD ENCLOSURE GASKET	0.25
4	3100005		M4 X 12MM RND HEAD SS 18-8	4
5	8591393		CLICKIN PUSHOUT PLUG, 5MM	1
6	8591408		ENCLOSURE DIN CLIP	1



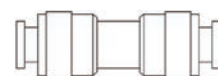
ITEM	PART NO.	 =OBsolete N/S=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
-	8591563		I4 BOX ASSEMBLY	1563
2	8592061		BLUE DIN BRACKET	2
3	8591567		I4 ELECTRONIC BOARD + CNCTRS	1
4	8591566		I4 ENCLOSURE	1
5	8591408		ENCLOSURE DIN CLIP	2
6	3562836		HARNESS,NET POWER,SMARTLITE	1
7	8591394		CLICKIN PUSHOUT PLUG, 6MM	2
8	8591393		CLICKIN PUSHOUT PLUG, 5MM	2
9	8591396		CLICKIN PUSHOUT PLUG, BLIND	3



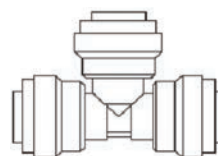
## CDS Pump



ITEM	PART NO.	ⓧ=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)		
-	8592924		CDS PUMP, Concentrate	2924		
-	8592923		CDS PUMP, CIP/LAUNDRY	2923		
-	8592922		CDS PUMP, 2 PART RTU SYSTEM	2922		
1	8592921		CDS PUMP, DOOR FASTENERS	2	2	2
2	8592920		CDS SMALL PUMP KIT (pump head, face plate, roller block, gasket, screws)	1	1	0
3	8593163		CDS,KIT HOSE,s/PUMP,SANTOPRENE	1	1	0
4	8592916		CDS PUMP, 1/2 IN HOLE PLUG	5	5	5
4A	8592915		CDS PUMP, 7/8 IN HOLE PLUG	1	1	1
5	8592914		CDS PUMP, PWR CORD RELIEF	1	1	1
6	8592913		CDS PUMP, POWER SWITCH KIT	1	1	1
7	8592912		CDS PUMP, POWER CORD	1	1	1
8	8592911		CDS PUMP, MNTING BRKT KIT	1	1	1
9	8592910		CDS PUMP, ENCLOSURE	1	1	1
10	8592909		CDS PUMP, HINGE KIT	1	1	1
11	8592908		CDS PUMP, ENCLOSURE DOOR	1	1	1
	8592907	n/s	CDS 60 RPM PUMP MOTOR (see label on Motor)	2	1	2
12	8592906	n/s	CDS 105 RPM PUMP MOTOR (see label on Motor)	0	2	0
	8592905	n/s	CDS 15 RPM PUMP MOTOR (small pump)	1	0	0
13	8592904		CDS PUMP, POWER SUPPLY KIT	1	1	1
14	8592903		CDS PUMP, CONTROL BOARD KIT	1	1	1
15	8592918		CDS LARGE PUMP KIT (pump head, face plate, roller block, gasket, screws)	2	2	2
16	8593162		CDS,KIT HOSE,L/PUMP,SANTOPRENE	2	2	2
17	8593161		CDS,QUICK CONNECT,3/8 X 3/8	-	-	-
18	8593160		CDS,QUICK CONNECT,3/8 X 1/4	-	-	-
19	8593159		CDS,QUICK CONNECT,TEE,3/8	-	-	-

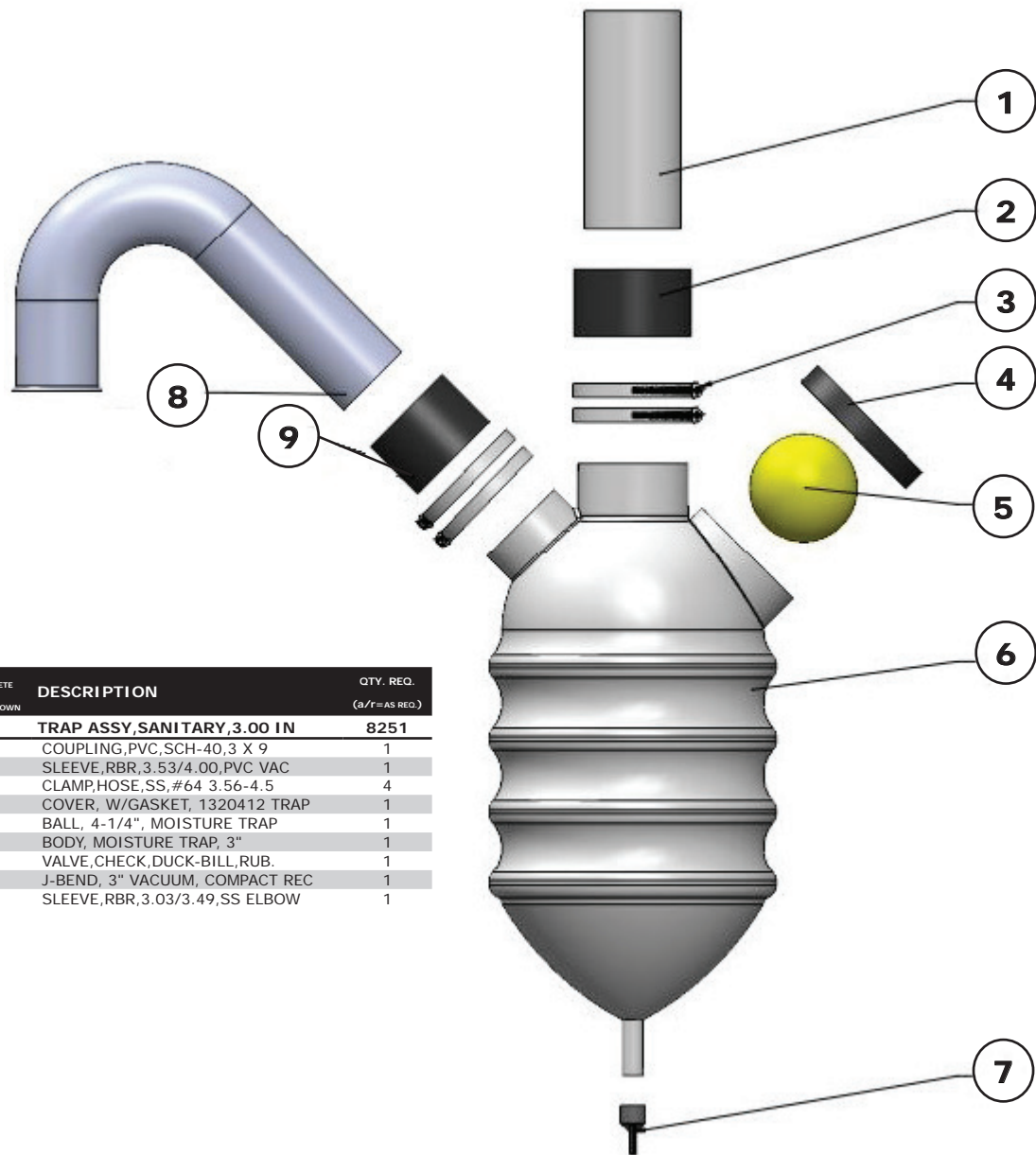



17/18



19

Sanitary Trap Assembly



ITEM	PART NO.	 OBSOLETE	DESCRIPTION	QTY. REQ. (a/r=AS REQ.)
		n/s=NOT SHOWN		
-	8508251		TRAP ASSY,SANITARY,3.00 IN	8251
1	8508242		COUPLING,PVC,SCH-40,3 X 9	1
2	8504278		SLEEVE,RBR,3.53/4.00,PVC VAC	1
3	8500856		CLAMP,HOSE,SS,#64 3.56-4.5	4
4	13204132		COVER, W/GASKET, 1320412 TRAP	1
5	13204122		BALL, 4-1/4", MOISTURE TRAP	1
6	1320414		BODY, MOISTURE TRAP, 3"	1
7	8517844		VALVE,CHECK,DUCK-BILL,RUB.	1
8	1370684		J-BEND, 3" VACUUM, COMPACT REC	1
9	8504277		SLEEVE,RBR,3.03/3.49,SS ELBOW	1